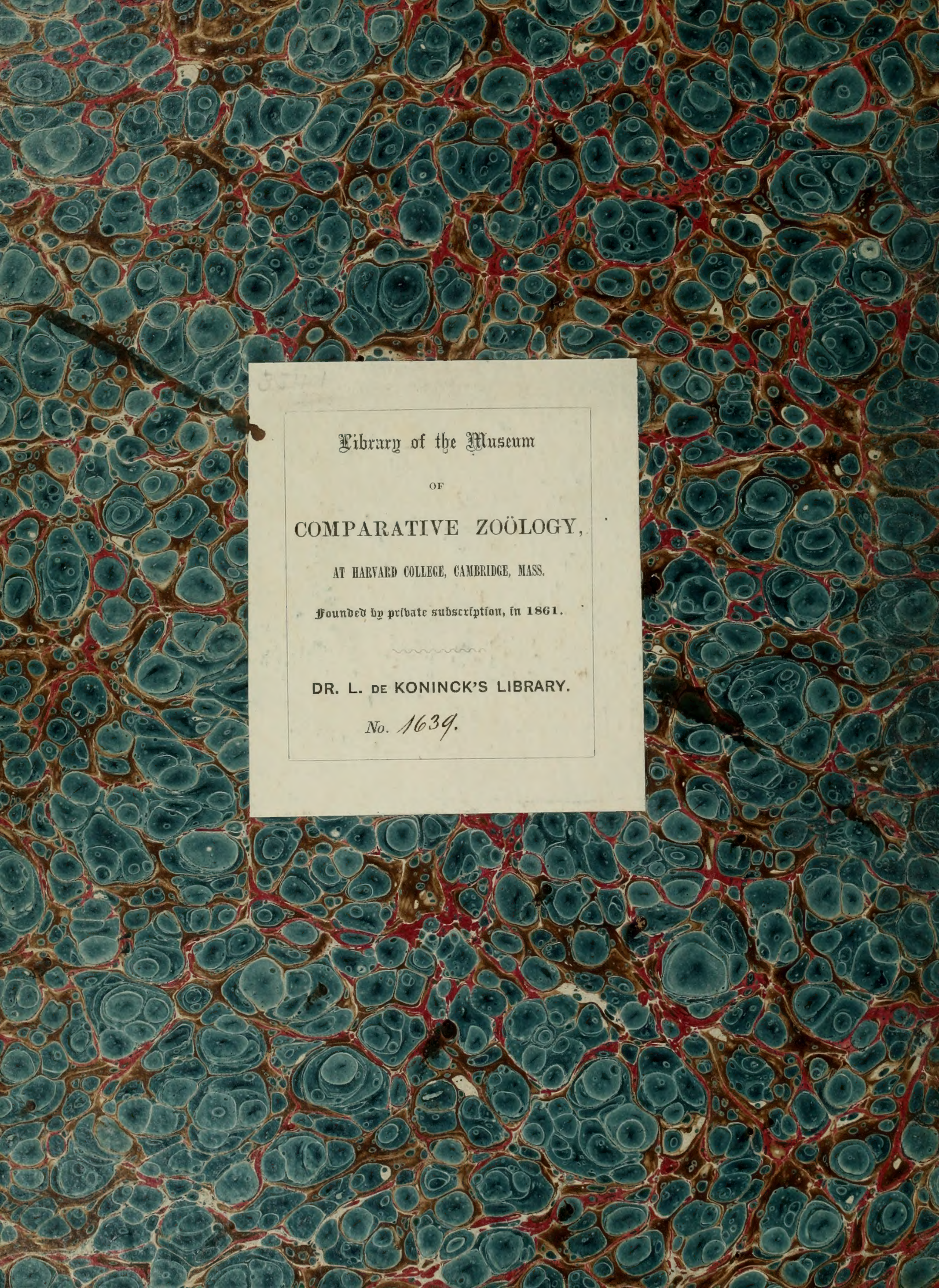
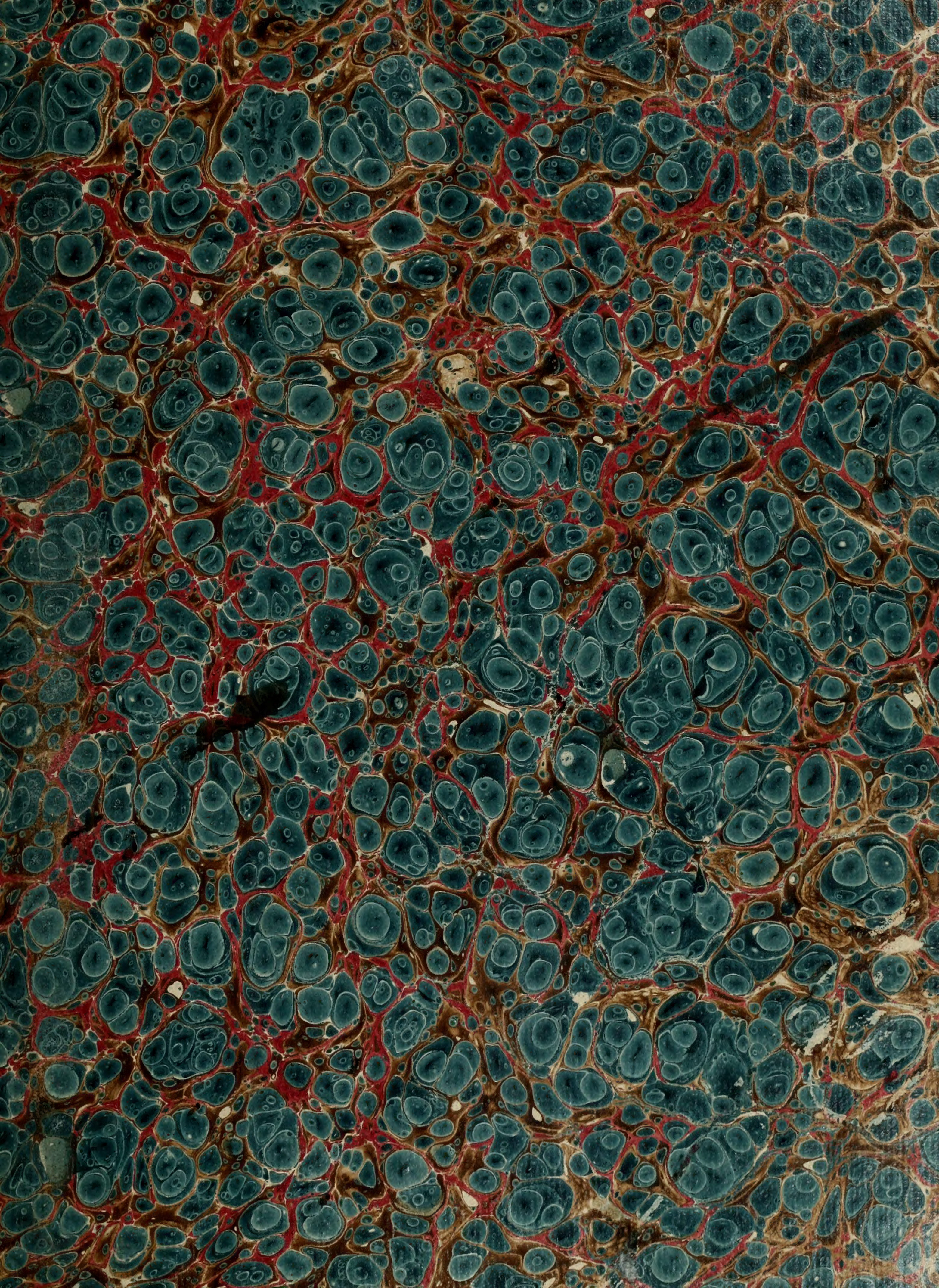






ICONOGRAPHIE

ZOOPHYTOLOGIQUE.

PARIS. — IMPRIMERIE DE FAIN ET THUNOT,
RUE RACINE, 28, PRÈS DE L'ODÉON.

ICONOGRAPHIE

ZOOPHYTOLOGIQUE,

DESCRIPTION

PAR LOCALITÉS ET TERRAINS

DES POLYPIERS FOSSILES DE FRANCE

ET PAYS ENVIRONNANTS,

PAR

HARDOUIN MICHELIN,

MEMBRE DE LA SOCIÉTÉ GÉOLOGIQUE DE FRANCE,

ACCOMPAGNÉE DE FIGURES LITHOGRAPHIÉES,

PAR LUDOVIC MICHELIN ET DELARUE FILS.

PLANCHES.

A Paris,

CHEZ P. BERTRAND, ÉDITEUR,

LIBRAIRE DE LA SOCIÉTÉ GÉOLOGIQUE DE FRANCE,

rue Saint-André-des-Arcs, 65.

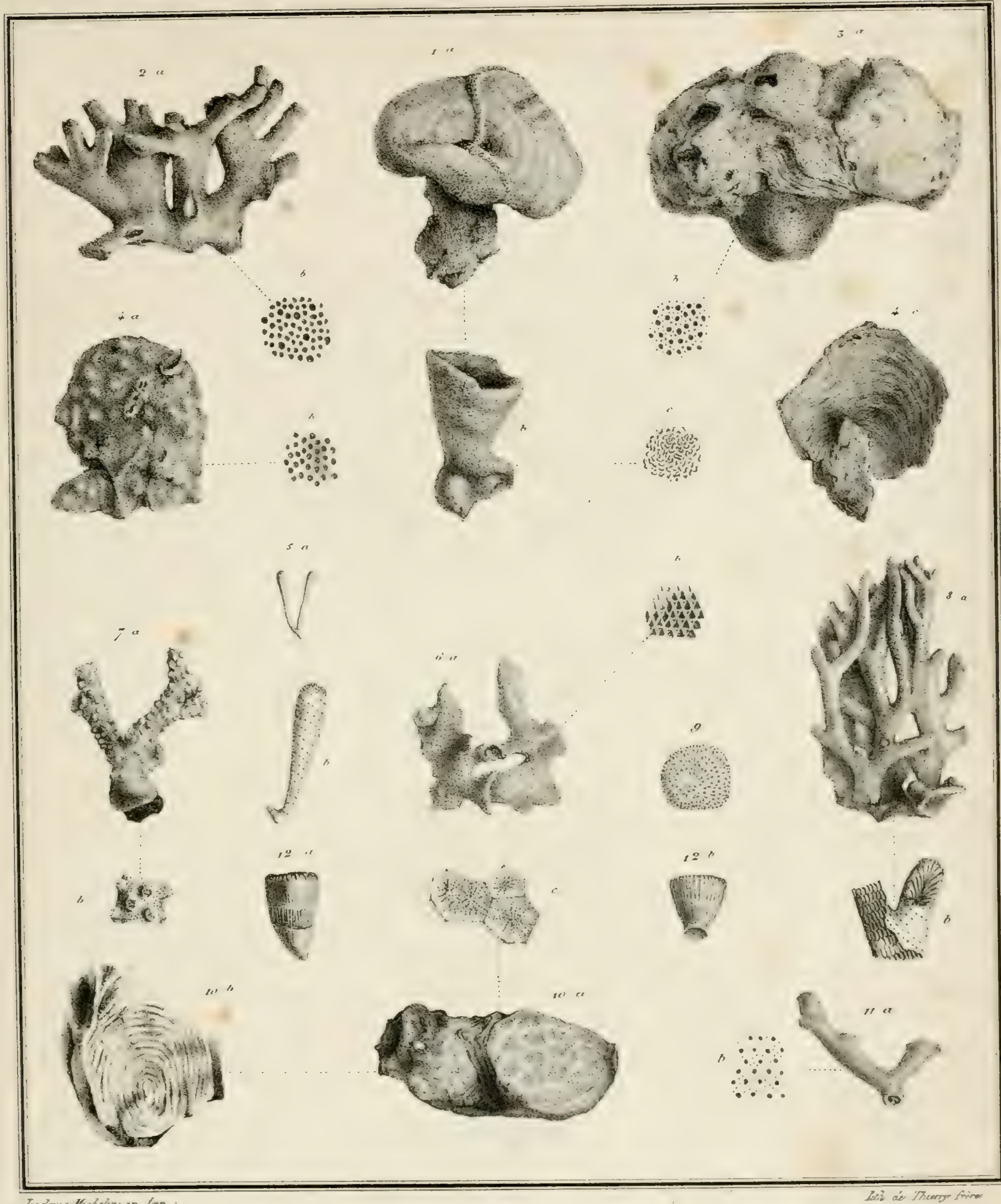
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1840 à 1847

GRÈS VERT INFÉRIEUR.

DEPᵗ DES ARDENNES.

Pl. 1.



Ludovic Michelin in lap.

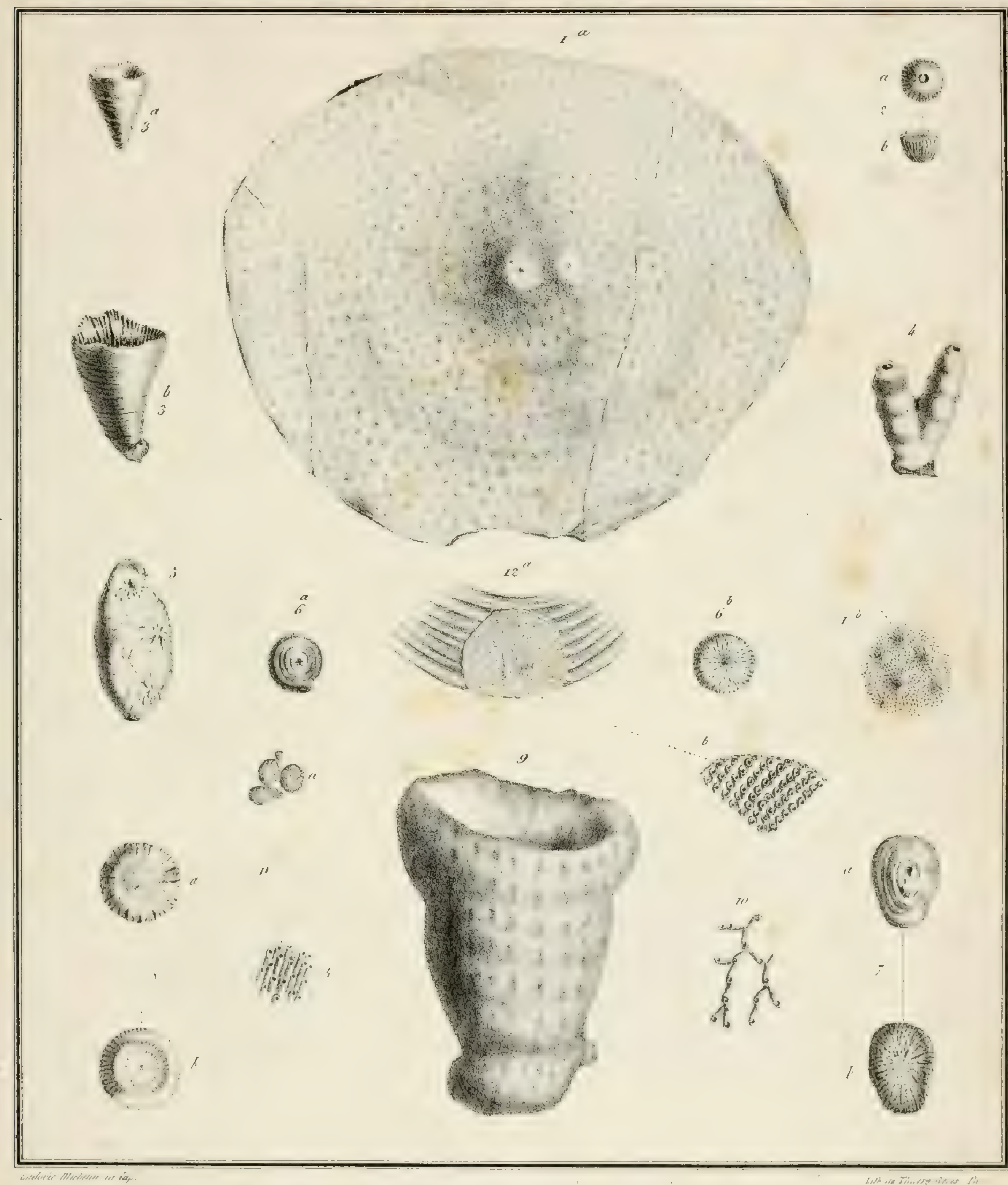
Lith. de Thierry frères

1 *Spongia boletiformis.* Michelin.
2. *Heteropora cryptopora.* Blainville.
3 ———. *spongioides* Michelin.
4 *Ceriopora polymorpha.* Goldfuss.
5 *Cricopora coliformis.* Michelin.
6 *Eschara triangularis.* ———.
7 *Ceriopora Raulinii* ———.
8 *Cricopora gracilis.* ———.
9 *Diastopora gracilis.* Milne Edwards.
10 *Ceriopora Landriotii.* Michelin.
11 *Heteropora dichotoma.* Blainville.
12 *Turbinolia conulus* Michelin

OOLITHE INFÉRIEURE.

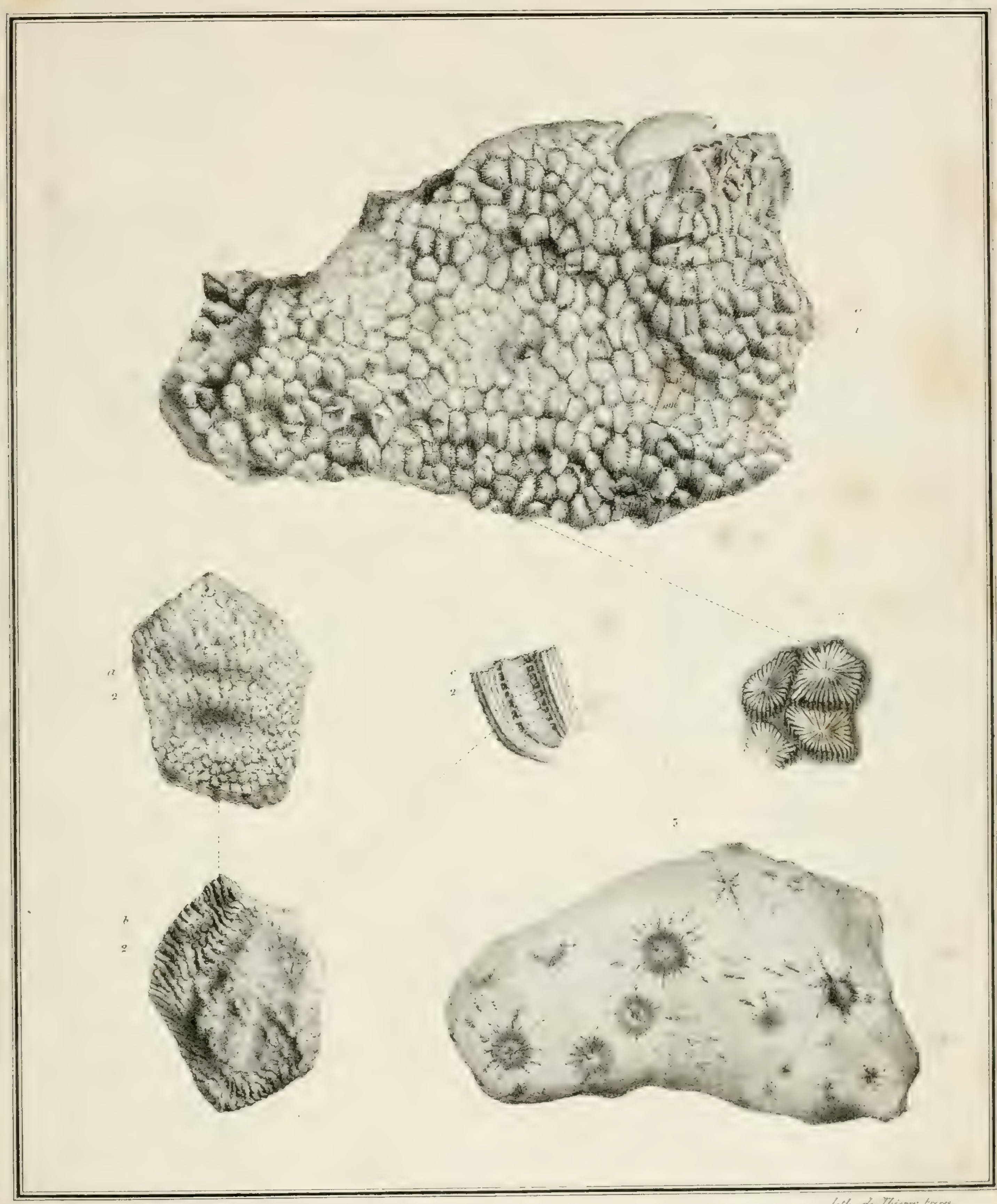
DÉP.^{t} DU CALVADOS.

Pl. 2.



Ludovic Michelin ad nat. — Lith. de Thierry frères Pa

1.	*Astrea Defranceana*	Michelin	
2.	*Turbinolia Magnevilliana*	———	
3.	*Caryophyllia cylindrica*	———	
4.	*Spongia clavarioides*	Lamouroux.	
5.	*Spongia stellata*	Lamouroux	
6.	*Cyclolites orbitolites*	Michelin.	
7.	——— *deformis*	———	
8.	——— *Eudesii*	———	
9.	*Scyphia costata*	Goldfuss	
10.	*Alecto dichotoma*	Lamouroux.	
11.	*Diastopora verrucosa*	M. Edwards	
12.	——— *scobinula*	Michelin	



Ludovic Michelin in lap. Lith. de Thierry frères

1 Astrea polygonalis Michelin. ‖ 2 Sarcinula Archiacii Michelin.
3 Spongia biasica Michelin.

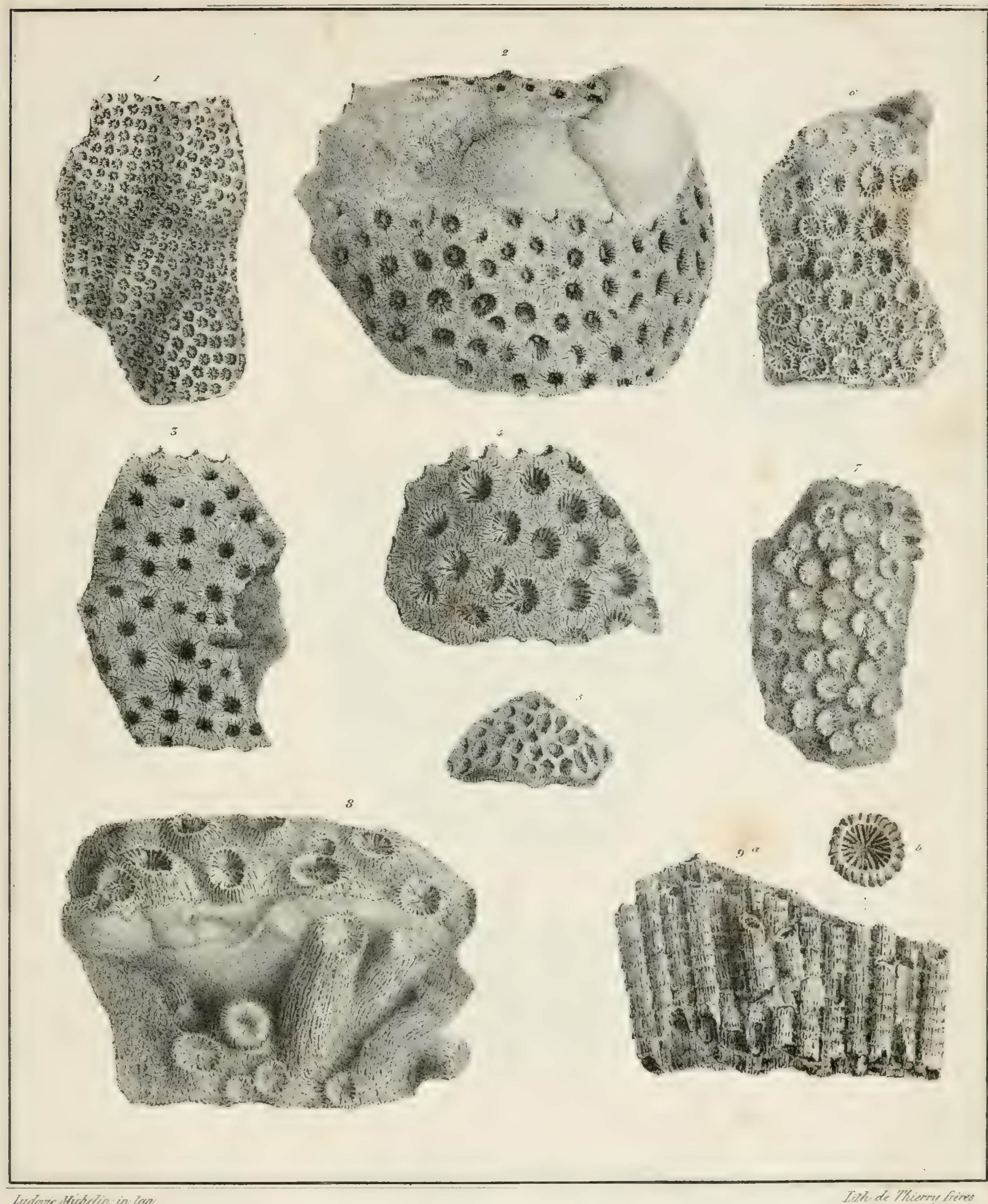
GRÈS VERT D'UCHAUX

DEP^{t} DE VAUCLUSE.



Ludovic Michelin in lap. — Lith. de Thierry frères

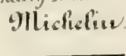
1	Cyclolites discoidea	Blainville	5	Dendrophyllia brevicaulis	Michelin	9	Astrea laganum	Blainville
2	Turbinolia compressa	Lamarck	6	Lobophyllia Requieni	———	10	——— agaricites	Goldfuss
3	——— rudis	Michelin	7	Astrea pseudomeandrina	———	11	——— micraxona	Michelin
4	Caryophyllia globosa	———	8	——— lamellistriata	———			



Ludovic Michelin in lap. *Lith. de Thierry frères*

1	*Astrea reticulata*	Goldfuss	
2	——— *terminaria*	Michelin	
3	——— *putealis*	———	
4	*Astrea cribraria*	Michelin	
5	——— *vesparia*	———	
6	——— *sulcato-lamellosa*	———	
7	*Astrea vallisclausæ*	Michelin	
8	——— *varians*	———	
9	*Stylina Renauxii*	———	

Ludovic Michelin in lap. *Lith. de Thierry frères*

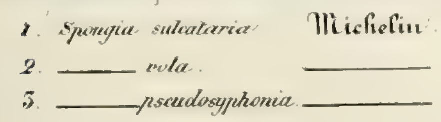


1	*Astrea lamellosissima*		Michelin
2	———	*Delcrosiana*	———
3	———	*grandis*	Sowerby
4	*Astrea formosissima*		Sowerby
5	*Stylina striata*		Michelin
6	*Sarcinula favosa*		———
7	*Sarcinula quincuncialis*		Michelin.
8	*Meandrina Arausiaca*		———
9	*Lithodendron humile*		———

GRÈS VERT INFÉRIEUR

UCHAUX (DEP.T DE VAUCLUSE)

Ludovic Michelin in Lap. — Lith. de Thierry frères



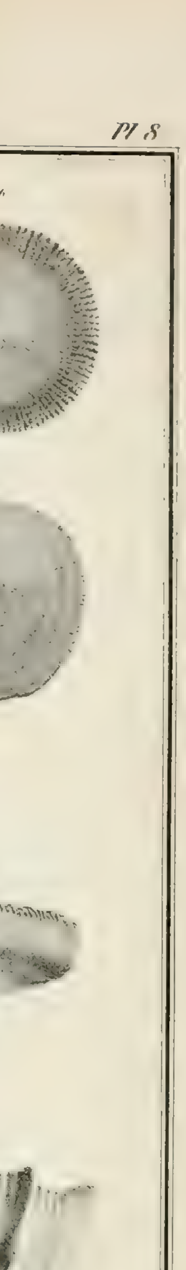
1. *Spongia sulcataria* Michelin.
2. ——— *vola*. ———
3. ——— *pseudosyphonia* ———

4. *Spongia sanguisuga*. Michelin.
5. ——— *pilula*. ———
6. *Heliopora Blainvilliana*. ———

7. *Stylina crassa lamella*. Michelin
8. ——— *Provincialis* ———
9. *Orbitolites concava*. Lamarck.

GROUPE SUPRACRETACÉ

PIEMONT, ASTESAN, NICE, ETC.



Ludovic Michelin in Lap. | Lith. de Thierry frères

1. *Stephanophyllia*	*imperialis*	Michelin.	7. *Turbinolia*	*obesa*	Michelotti.	13. *Turbinolia*	*Sismondiana*	Michelin.
2. ———	*elegans*	———	8. ———	*armata*	———	14. ———	*clavus*	Michelotti.
3. ———	*Italica*	———	9. ———	*varicostata*	———	15. ———	*cylindrica*	———
4. *Cyclolites*	*Borsonis*	———	10. ———	*Bellardii*	Michelin.	16. ———	*cornucopiae*	———
5. *Turbinolia*	*Japheti*	———	11. ———	*pyramidata*	Michelotti.	17. ———	*Taurinensis*	Michelin.
6. ———	*Michelottii*	———	12. ———	*brevis*	Deshayes.			

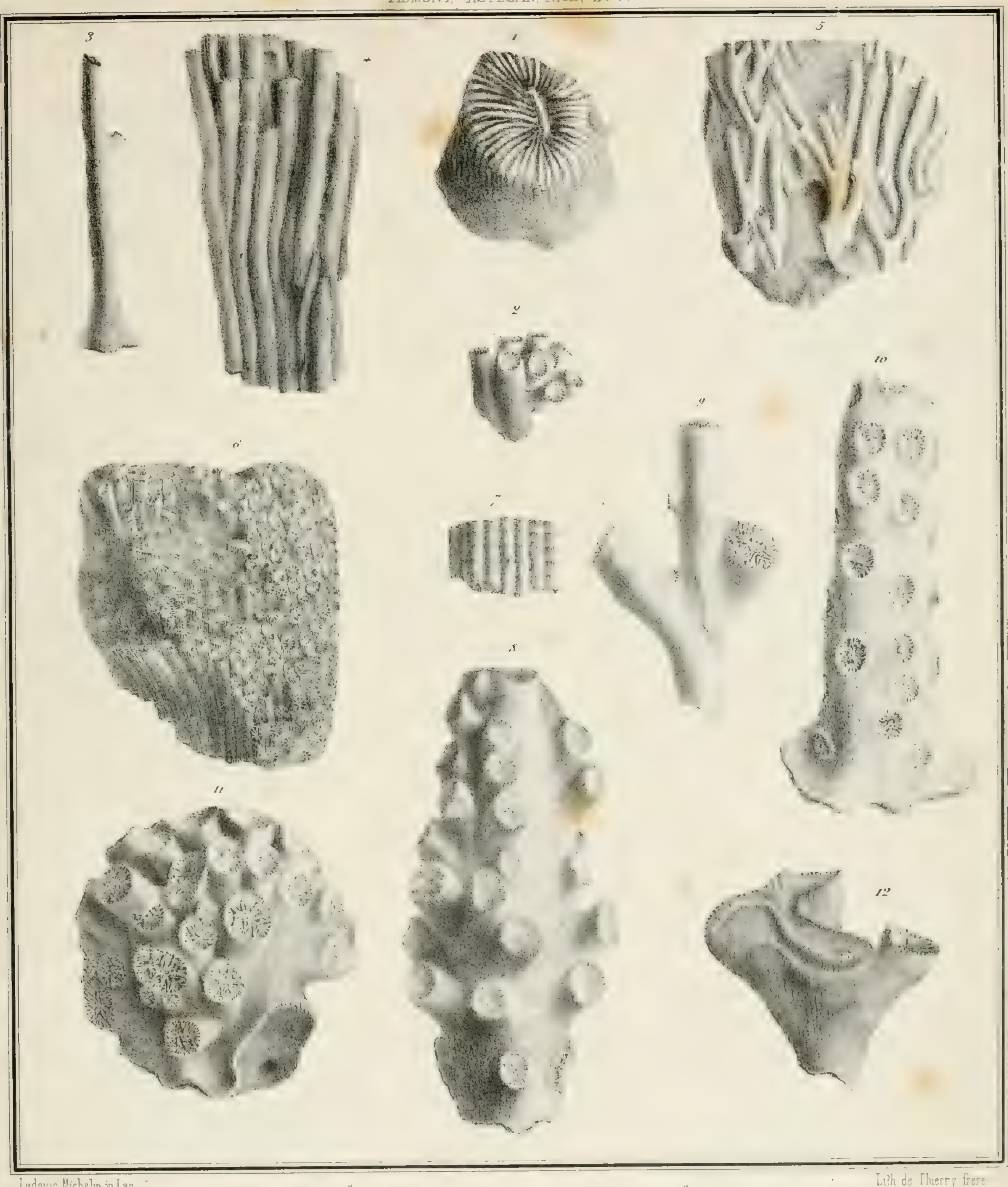
GROUPE SUPRACRÉTACÉ.

PIÉMONT, ASTESAN, NICE, ETC.



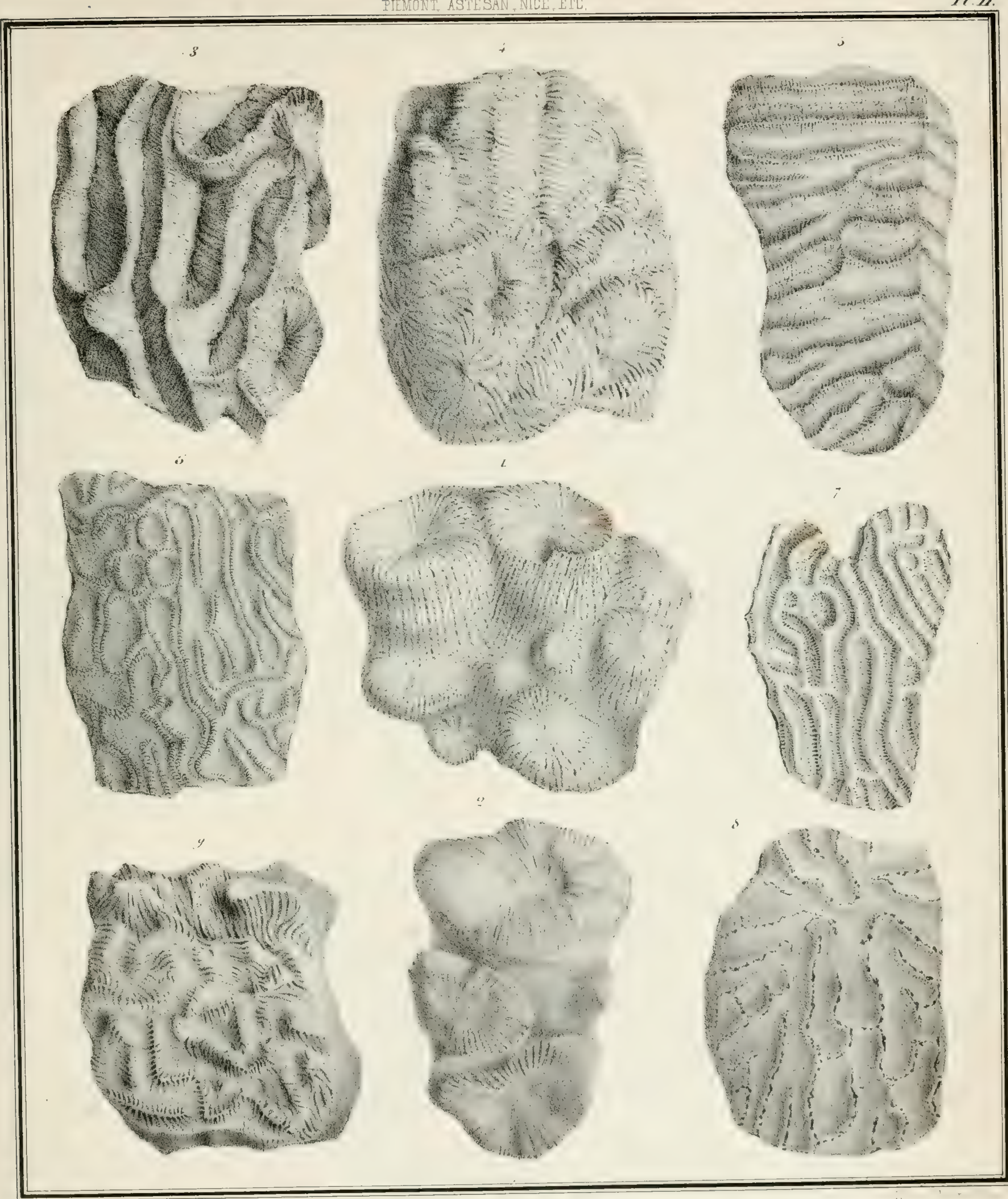
Ludovic Michelin, in Lap. — Lith. de Thierry frères

1. *Turbinolia praelonga.* Michelotti.
2. ——— *plicata.* ———
3. ——— *Bellingheriana.* Michelin.
4. ——— *undulata.* ———
5. ——— *multispina.* Michelotti.
6. ——— *multiserialis.* ———
7. *Turbinolia duodecimcostata* Goldfuss.
8. ——— *versicostata.* Michelin.
9. ——— *sinensis* Michelotti
10. ——— *fimbriata* Michelin
11. *Flabellum avicula.* ———
12. ——— *appendiculatum.* ———
13. *Flabellum cuneatum* Michelin.
14. ——— *extensum* ———
15. *Caryophyllia Italica* ———
16. ——— *Pedemontana.* ———
17. ——— *cyathus (V.^{es} minor)* Lamouroux
18. ——— *pseudoturbinolia.* Michelin.



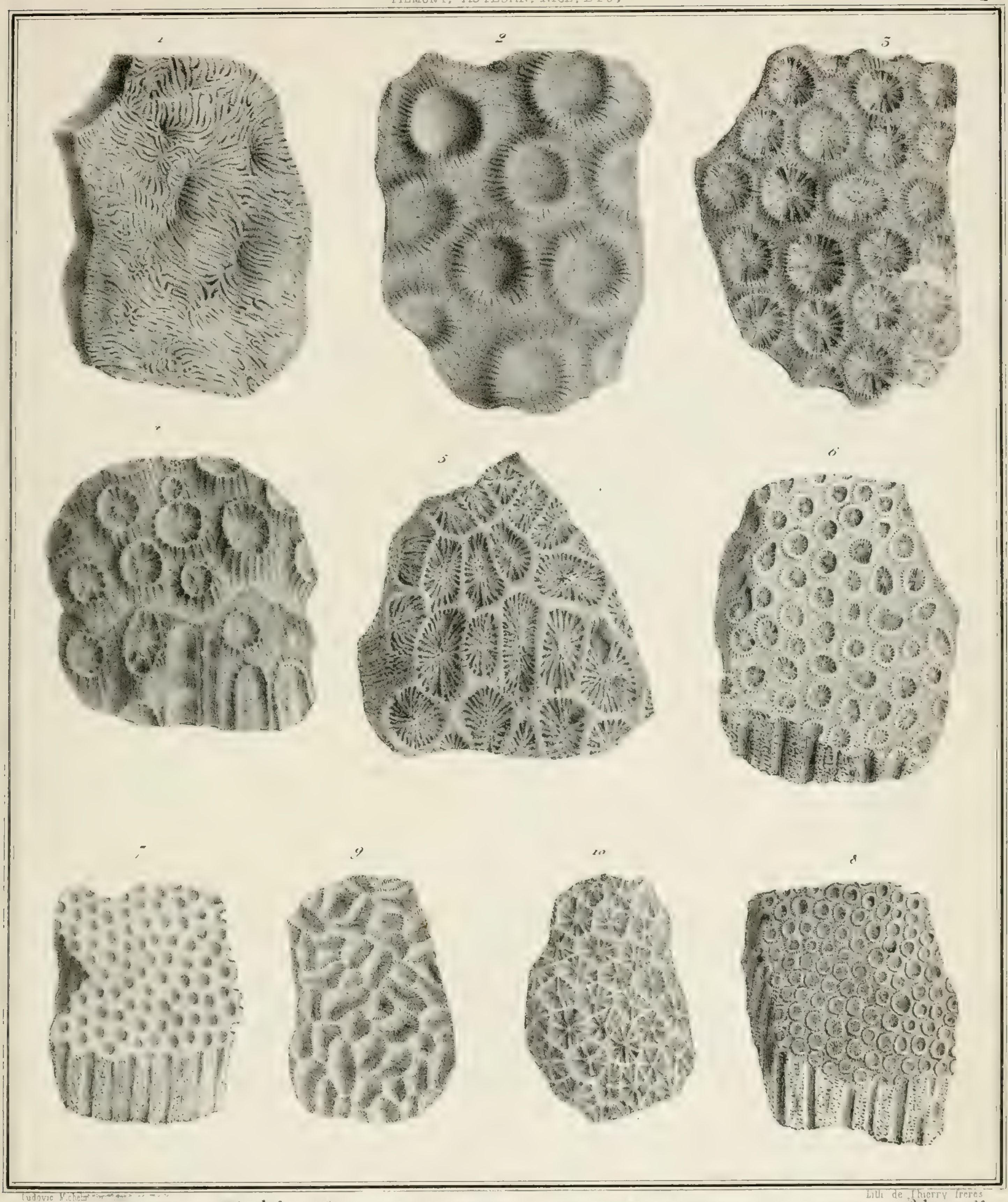
Ludovic Michelin in Lap — Lith de Thierry frère

1	*Anthophyllum*	*detritum.*	Michelin
2	*Lithodendron*	*flexuosum.*	———
3	———	*granulosum*	Goldfuss
4	———	*manipulatum*	Michelin
5	*Lithodendron*	*intricatum.*	Michelin
6	*Stylina*	*thyrsiformis.*	———
7	———	*striata*	———
8	*Dendrophyllia*	*ramea*	Blainville
9	*Dendrophyllia*	*cornigera.*	Blainville
10	———	*digitalis.*	———
11	———	*irregularis*	———
12	*Lobophyllia*	*contorta*	Michelin



Ludovic Michelin in Lap

1. Lobophyllia granulosa. Michelin.
2. ——— depressa. ———
3. Meandrina profunda. ———
4. Meandrina stellifera. Michelin.
5. ——— phrygia. Lamarck.
6. ——— bisinuosa. Michelin.
7. Meandrina filograna. Lamarck.
8. ——— vetusta. Michelin.
9. Monticularia meandrinoides. ———



Ludovic Michelin

Lith. de Thierry frères

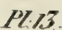
1 *Agaricia* *Apennina*. Michelin.
2 *Astrea* *Rochettina*. ———
3 ——— *Guettardi*. Defrance.

4 *Astrea* *radiata* Lamarck.
5 ——— *diversiformis*. Michelin.
6 ——— *argus*. Lamarck.
7 ——— *plana*. Michelin.

8 *Astrea* *astreoides*. Blainville.
9 ——— *irregularis*. Defrance.
10 ——— *polygonalis* Michelin

GROUPE SUPRACRETACÉ.

PIEMONT ASTESAN, NICE ETC.



Ludovic Michelin in Lap:

Lith: de Thierry frères

1. *Astrea funesta.* al. Brongniart
2. ——— *lobato-rotundata.* Michelin.
3. ——— *Taurinensis.* ———
4. *Astrea ornata.* Michelin.
5. ——— *raristella.* Defrance.
6. *Oculina virginea.* Lamarck.
7. *Sarcinula gratissima.* Michelin.
8. *Gemmipora cyathiformis.* Blainville.
9. *Porites Collegniana.* Michelin.
10. *Heliopora Supergiana* ———

GROUPE SUPRACRETACÉ.

PIÉMONT, ASTESAN, NICE, ETC.



Ludovic Michelin in Lap. — Lith. de Thierry frères

1.	*Madrepora*	*glabra*.	Goldfuss.
2.	————	*lavandulina*.	Michelin.
3.	————	*exarata*.	Michelotti.
4.	*Frondipora*	*Marsillii*.	Blainville.
5.	*Lichenopora*	*Mediterranea*.	Blainville.
6.	————	*tuberosa*.	Michelin.
7.	*Myriapora*	*truncata*.	Blainville.
8.	*Eschara*	*cervicornis*.	Lamarck.
9.	*Eschara*	*foliacea*.	Lamarck.
10.	*Retepora*	*cellulosa*	————
11.	————	*echinulata*.	Blainville.
12.	*Cellepora*	*pumicosa*.	Lamarck.



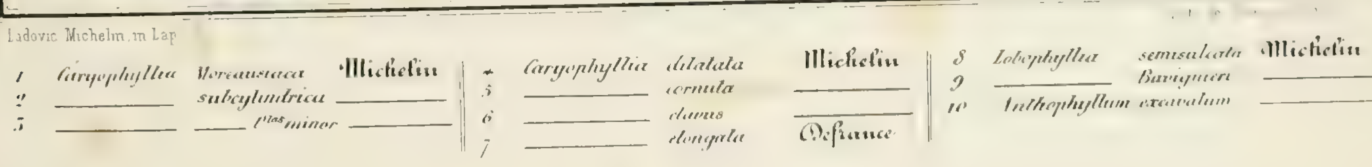
Ludovic Michelin, in Lap. — Lith: de Thierry frères

1. *Cellepora*	*ornata.*	Michelin	
2. ———	*Superquama*	———	
3. ———	*concentrica*	———	
4. ———	*echinata*	———	
5. *Membranipora*	*reticulum*	Blainville.	
6. *Lunulites*	*androsaces.*	Michelotti.	
7. ———	*intermedia.*	———	
8. ———	*umbellata*	Defrance.	
9. *Corallium*	*pallidum.*	Michelin.	
10. *Isis*	*melitensis.*	Goldfuss.	
11. *Antipathes*	*Vetusta.*	Michelotti	
12. *Tethia*	*Simplex.*	———	
13. ———	*lyncurium*	Lamarck	
14. *Nullipora*	*tuberosa.*	Michelin	



Ludovic Michelin, in Lap. — lith. de Thierry frères

1. *Caninia gigantea*. Michelin. ‖ 2. *Harmodites catenatus* Koninck. ‖ 3. *Michelinia tenuisepta*. Koninck.

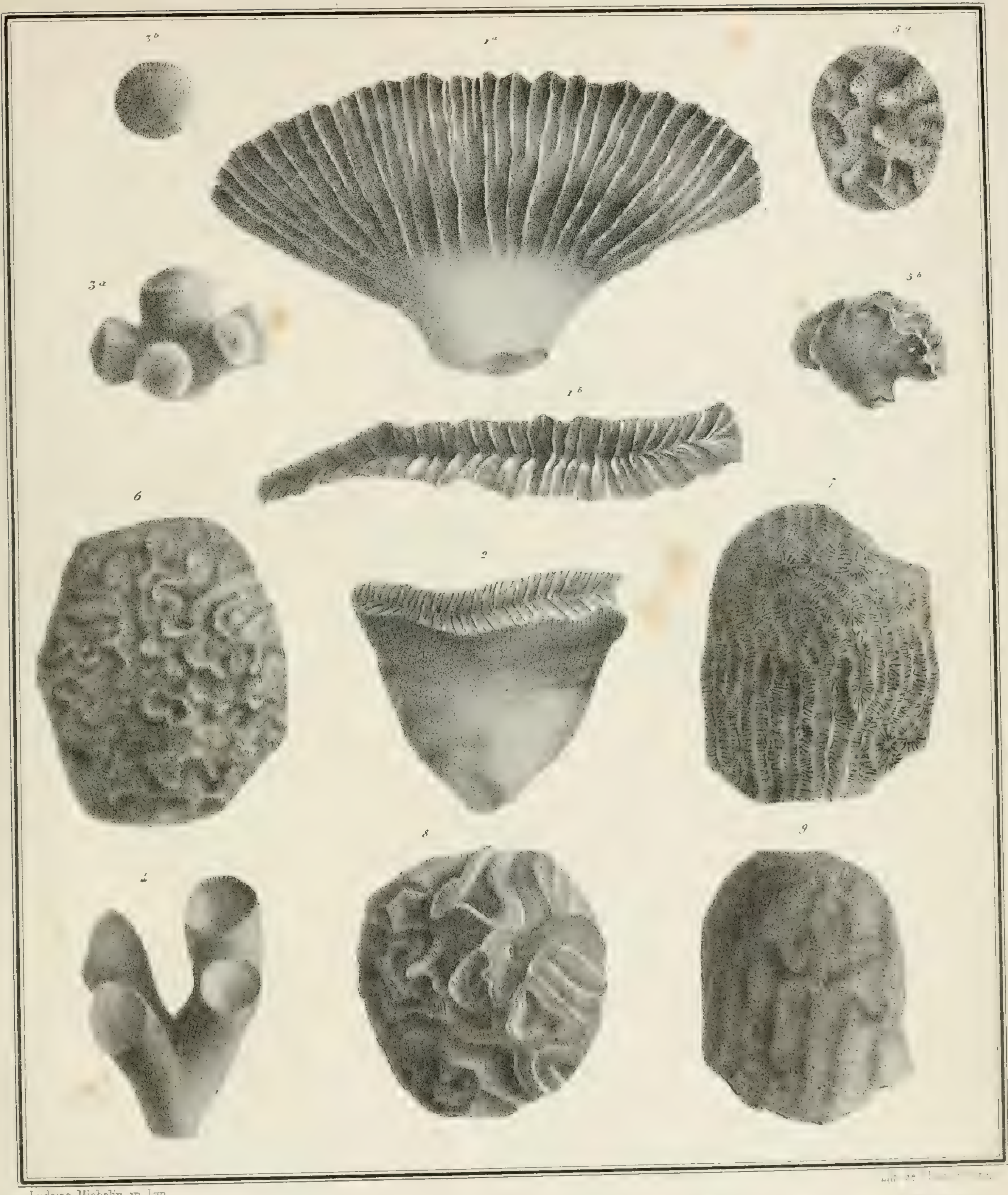


Ludovic Michelin, in Lap.

1 *Caryophyllia Moreausiaca* Michelin
2 ——— *subcylindrica* ———
3 ——— ——— var. *minor* ———
4 *Caryophyllia dilatata* Michelin
5 ——— *cornuta* ———
6 ——— *clavus* ———
7 ——— *elongata* Defrance
8 *Lobophyllia semisulcata* Michelin
9 ——— *Baviqueri* ———
10 *Anthophyllum excavatum* ———

GROUPE OOLITHIQUE.

TERRAIN CORALLIEN DE S[t] MIHIEL, ETC. (MEUSE.)



Ludovic Michelin, in Lap.

1 *Lobophyllia flabellum.* Michelin.
2 ——— *pseudoturbinolia* ———
3 *Dendrophyllia glomerata.* ———
4 *Dendrophyllia dichotoma.* Michelin.
5 *Meandrina corrugata.* ———
6 ——— *Edwarsii.* ———
7 *Meandrina rastellina.* Michelin.
8 ——— *Raulinii.* ———
9 ——— *lamellodentata.* ———

GROUPE OOLITHIQUE.

TERRAIN CORALLIEN DE S.t MIHIEL, &.a (MEUSE)

Pl 10.

1

2

3

4

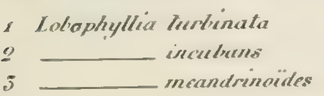
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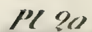
7

8

9



1	*Lobophyllia turbinata*	Michelin.	4	*Pavonia elegans*	Michelin.	7	*Lithodendron funiculus*	Michelin.
2	——— *incubans*	———	5	*Caryophyllia vasiformis*	———	8	——— *læve*	———
3	——— *meandrinoïdes*	———	6	*Lithodendron dichotomum*	Goldfuss.	9	——— *pseudostylina*	———

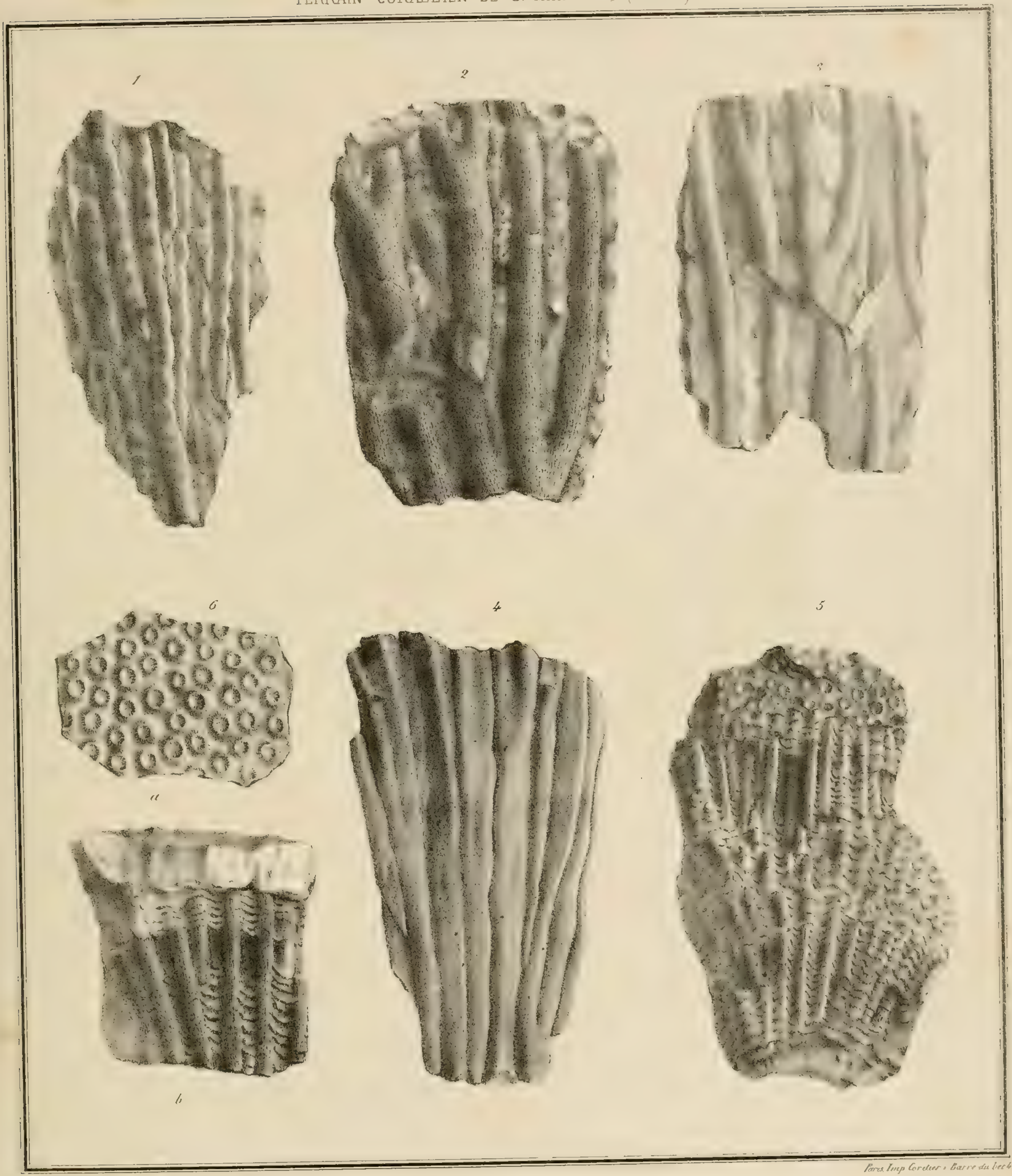


Ludovic Michelin, in Lap

1. *Lobophyllia Deshayesiana* Michelin.
2. ——— *cylindrica* ———
3. *Lobophyllia aspera* Michelin.
4. *Lithodendron pseudostylina* ———

GROUPE OOLITHIQUE.

TERRAIN CORALLIEN DE St. MIHIEL &a. (Meuse).



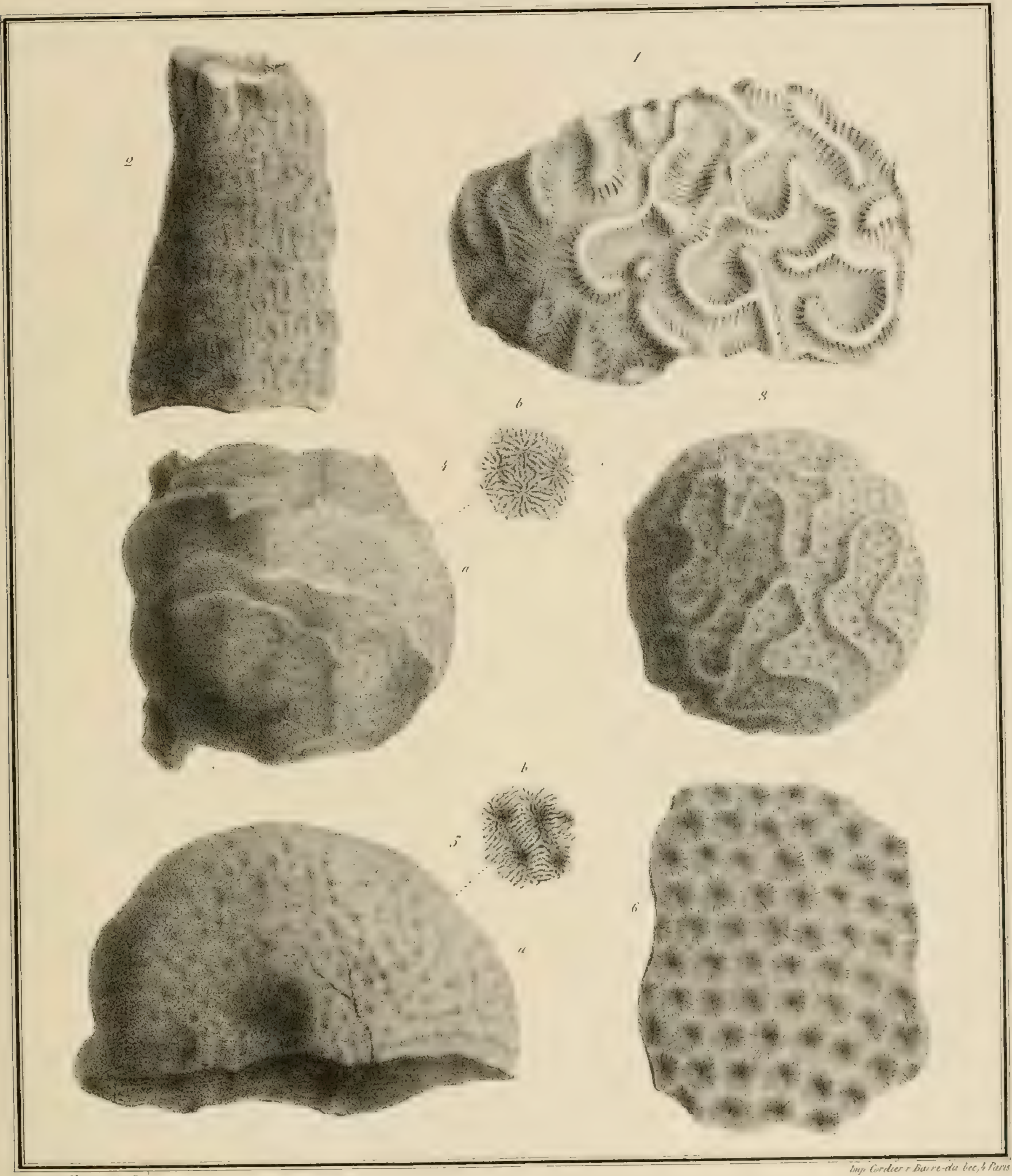
Ludovic Michelin in lap.

Paris. Imp. Cordier, r. Barre du bec 4.

1. *Lithodendron articulatum.* — Michelin.
2. ——— *Edwarsii.* — ———
3. ——— *Moreausiacum.* — ———
4. *Lithodendron flabellum.* — Michelin.
5. *Stylina Gaulardi.* — ———
6. ——— *tubulosa.* — ———

GROUPE OOLITHIQUE

TERRAIN CORALLIEN DE St MIHIEL 8^a (Meuse).



Ludovic Michelin in lapi

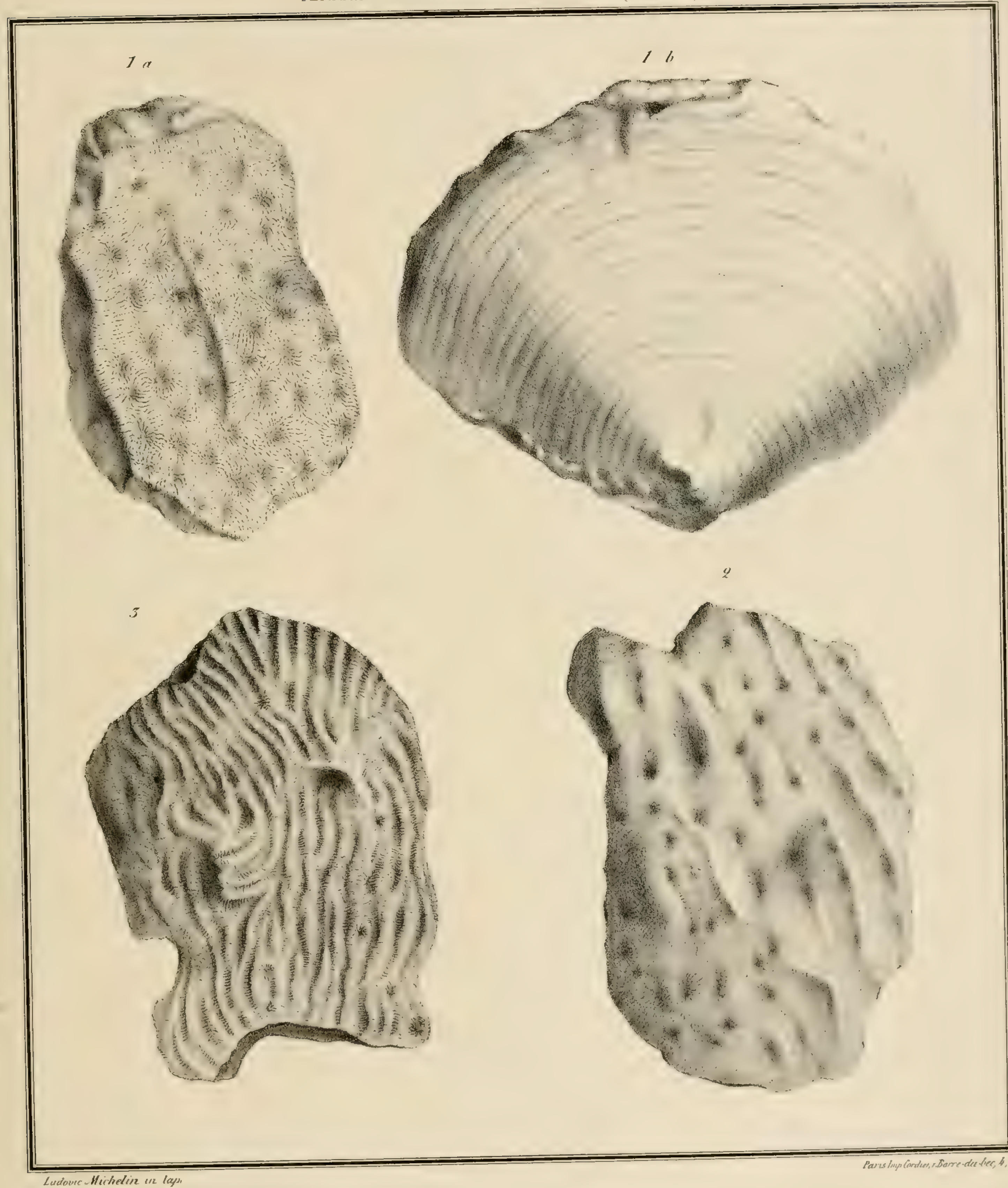
Imp. Cordier r. Barre-du-bec, 4 Paris

1 *Meandrina montana* ______ Michelin
2 ______ *Lotharinga* ______
3 *Pavonia meandrinoides* ______

4 *Pavonia hemispherica* ______ Michelin
5 ______ *tuberosa* ______ Goldfuss.
6 *Agaricia rotata* ______

GROUPE OOLITHIQUE

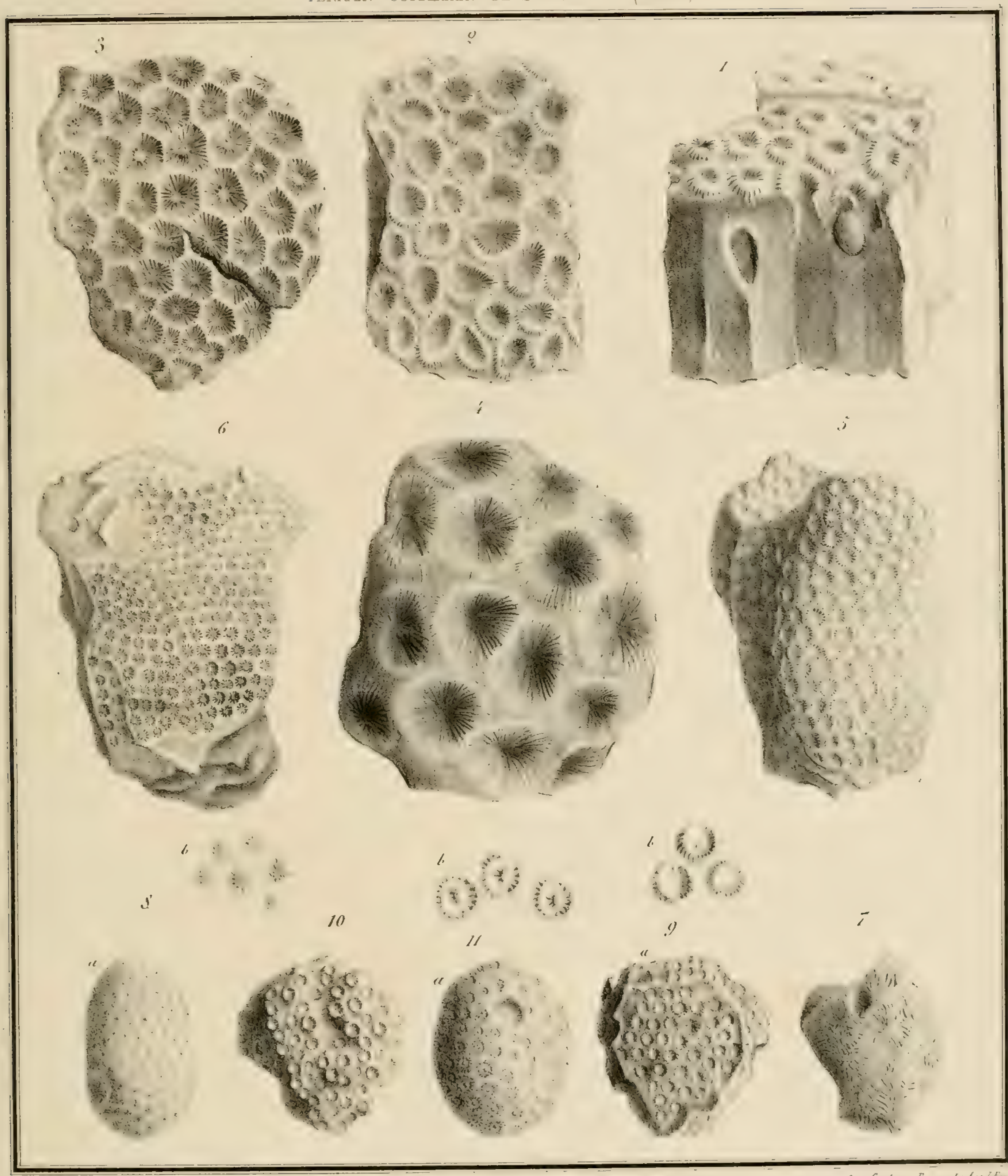
TERRAIN CORALLIEN DE S.t MIHIEL &.a (Meuse).



Ludovic Michelin in lap.

Paris Imp. Cordier, r. Barre-du-bec, 4.

1 Agaricia granulata Münster { 2 Agaricia Sömmeringii Michelin
3 Agaricia graciosa Michelin



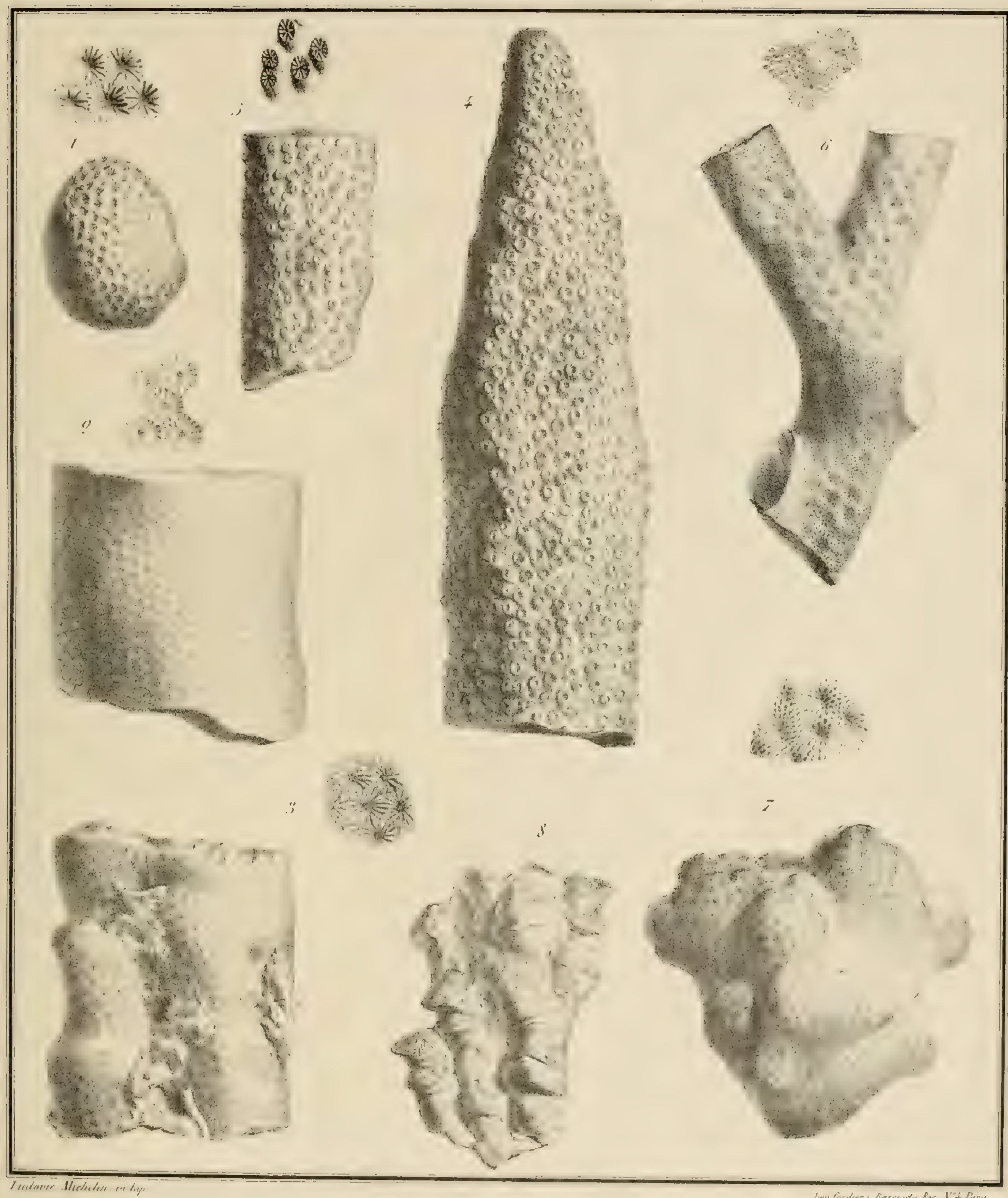
Ludovic Michelin in. lap.

Imp. Cordier r. Barre-du-bec, 4 Paris

1 Astrea	Lifoliana.	Michelin.	5 Astrea	depravata	Michelin	9 Astrea versatilis	Michelin
2 ___	meandrites.	___	6 ___	pentagonalis.	Münster.	10 ___ limbata.	Goldfuss.
3 ___	helianthoïdes.	Goldfuss.	7 ___	cristata.	Goldfuss.	11 ___ rotularis.	Michelin.
4 ___	Burgundiæ.	Blainville.	8 ___	Araneola.	Michelin.		

GROUPE OOLITHIQUE

TERRAIN CORALLIEN DE St MIHIEL &a (Meuse)

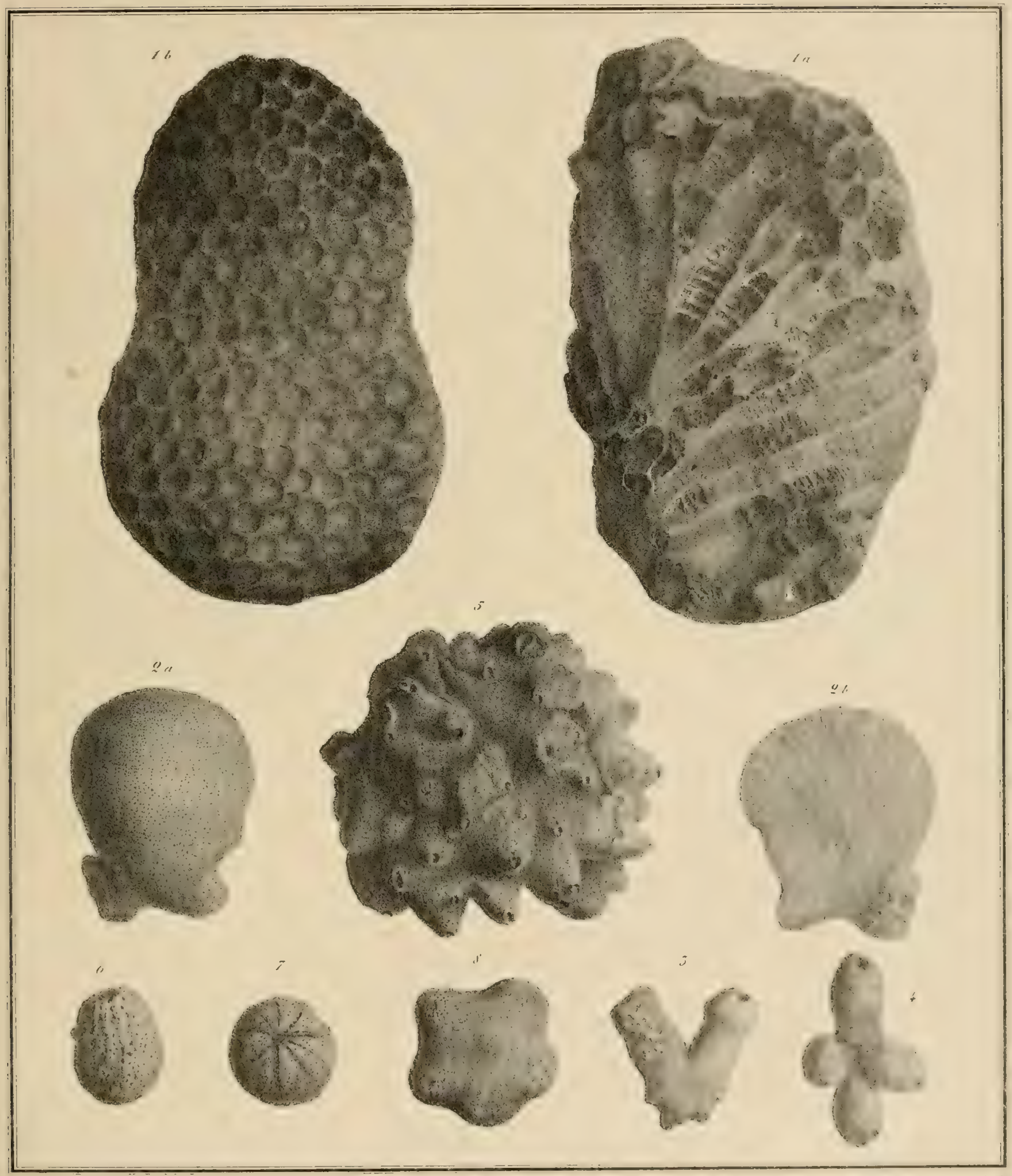


Ludovic Michelin ad lap. — Imp. Cordier r. Barre-du-Bec N.4 Paris

1	Astrea	Sancti Mihieli	Michelin
2	———	crassoramosa	———
3	Thamnasteria	Lamourouxii	Le Sauvage
4	Madrepora	Obeliscus	Michelin
5	Madrepora	sublevis	Michelin
6	Alveopora	Ramosa	———
7	———	tuberosa	———
8	———	incrustata	———

GROUPE OOLITHIQUE.

TERRAIN CORALLIEN DE St MIHIEL &^a (Meuse)

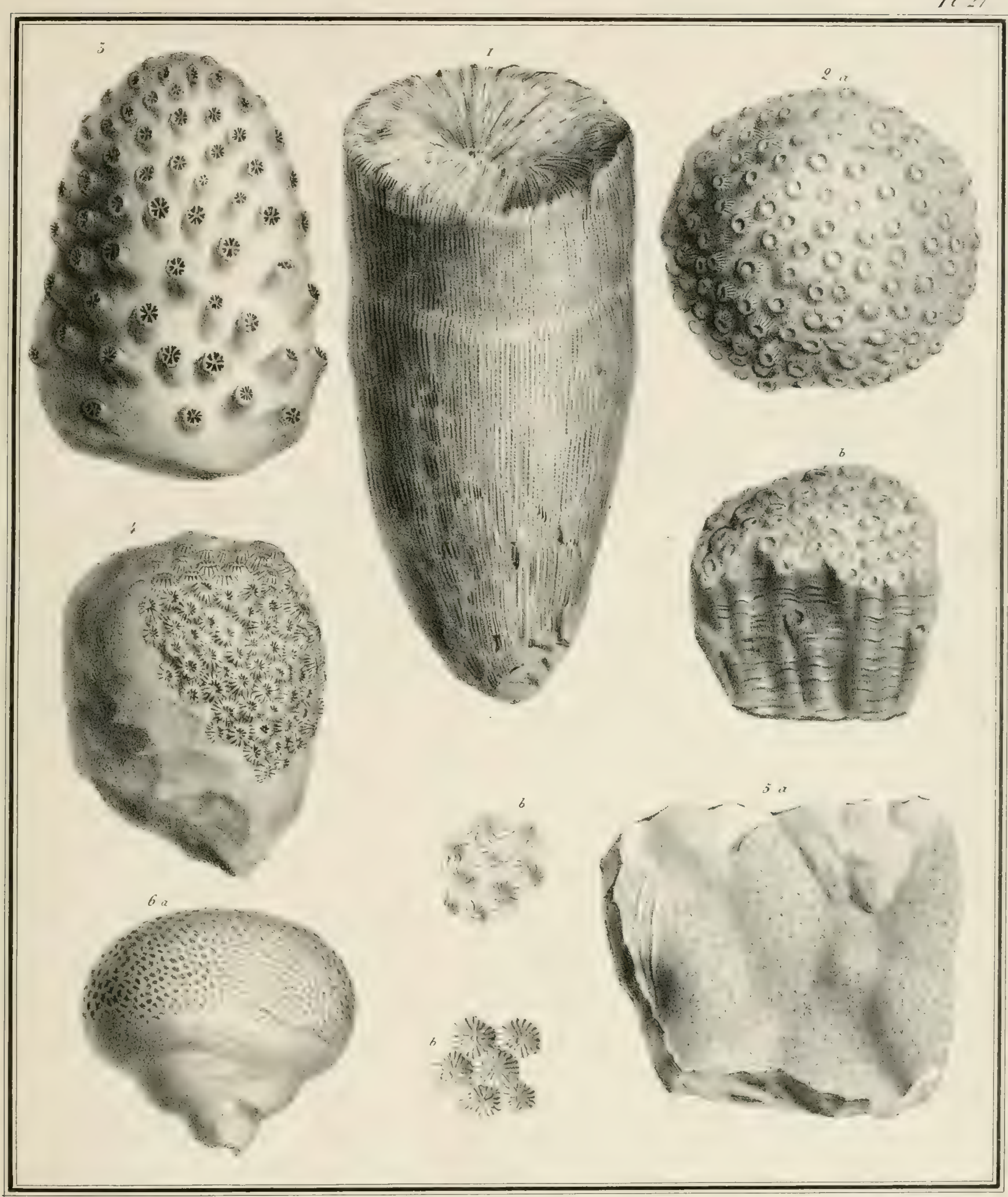


Ludovic Michelin in. lap. Paris Imp. Cordier r. Barres du Bec. 4

1 Cyathophora Richardi. Michelin
2 Chaetites capilliformis. ———
3 Spongia furcata. ———
4 ——— lagenaria Lamouroux
5 Spongia mamillaris Lamouroux.
6 Cnemidium pisiforme Michelin
7 ——— Rotula Goldfuss.
8 ——— Stellatum ———

GROUPE OOLITHIQUE.

TERRAIN CORALLIEN DE St MIHIEL & (MEUSE)

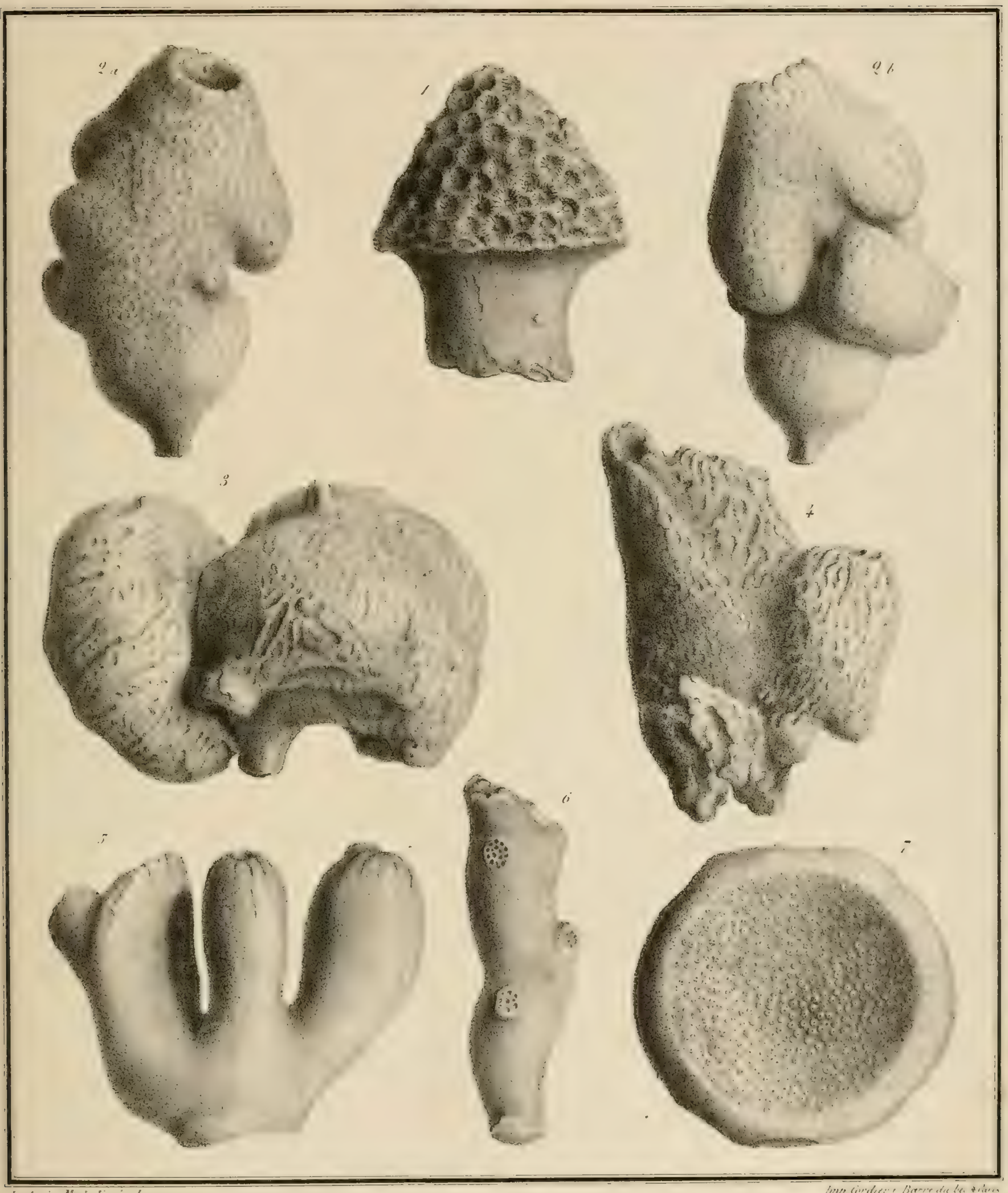


Ludovic Michelin in Lap: Lith. de Thierry frères

1. *Caryophyllia Calvimonti* Lamouroux
2. *Astrea tubulosa* Goldfuss.
3. *Astrea tumalaris* Michelin
4. ——— *Castellum*
5. *Agaricia lobata* Goldfuss.
6. *Astrea trochiformis* Michelin

TERRAIN CRÉTACÉ.

CRAIE CHLORITÉE DU CALVADOS DE L'ORNE, D'INDRE ET LOIRE, DE LOIR ET CHER, &a — *Pl. 28*



Ludovic Michelin, in lap — Imp. Cordier Barré du b. 4 dans

1 *Astrea coniformis.* Michelin.
2 *Scyphia trilobata.*
3 *Cnemidium crassum.*
4 *Spongia sulcataria* S. inflata Mich.
5 *Scyphia dichotoma* Michelin
6 *Siphonia ramosa*
7 *Chenendopora marginata*

TERRAIN CRÉTACÉ.

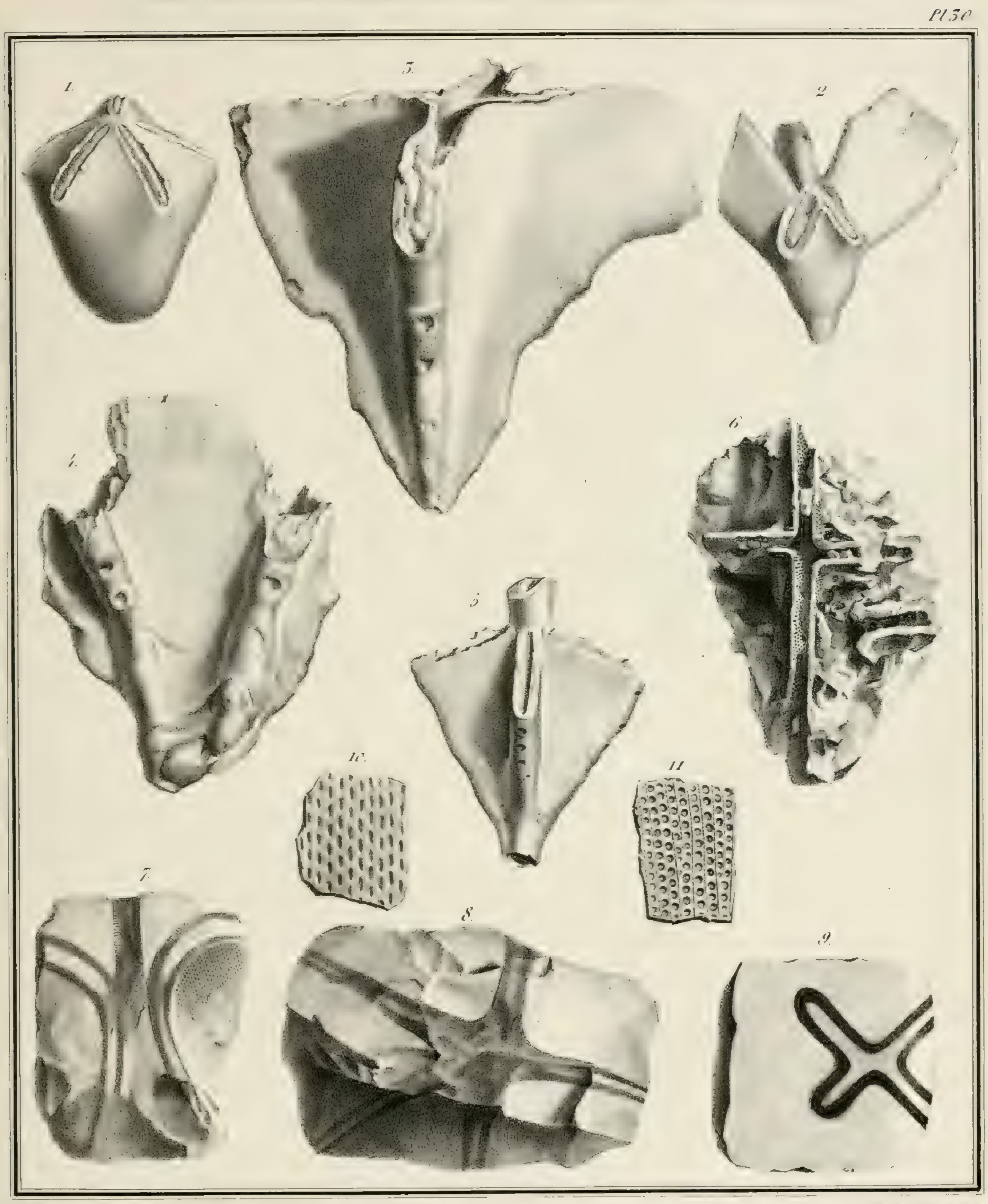
CRAIE CHLORITÉE DU CALVADOS, DE L'ORNE, D'INDRE ET LOIRE, DE LOIR ET CHER &c.



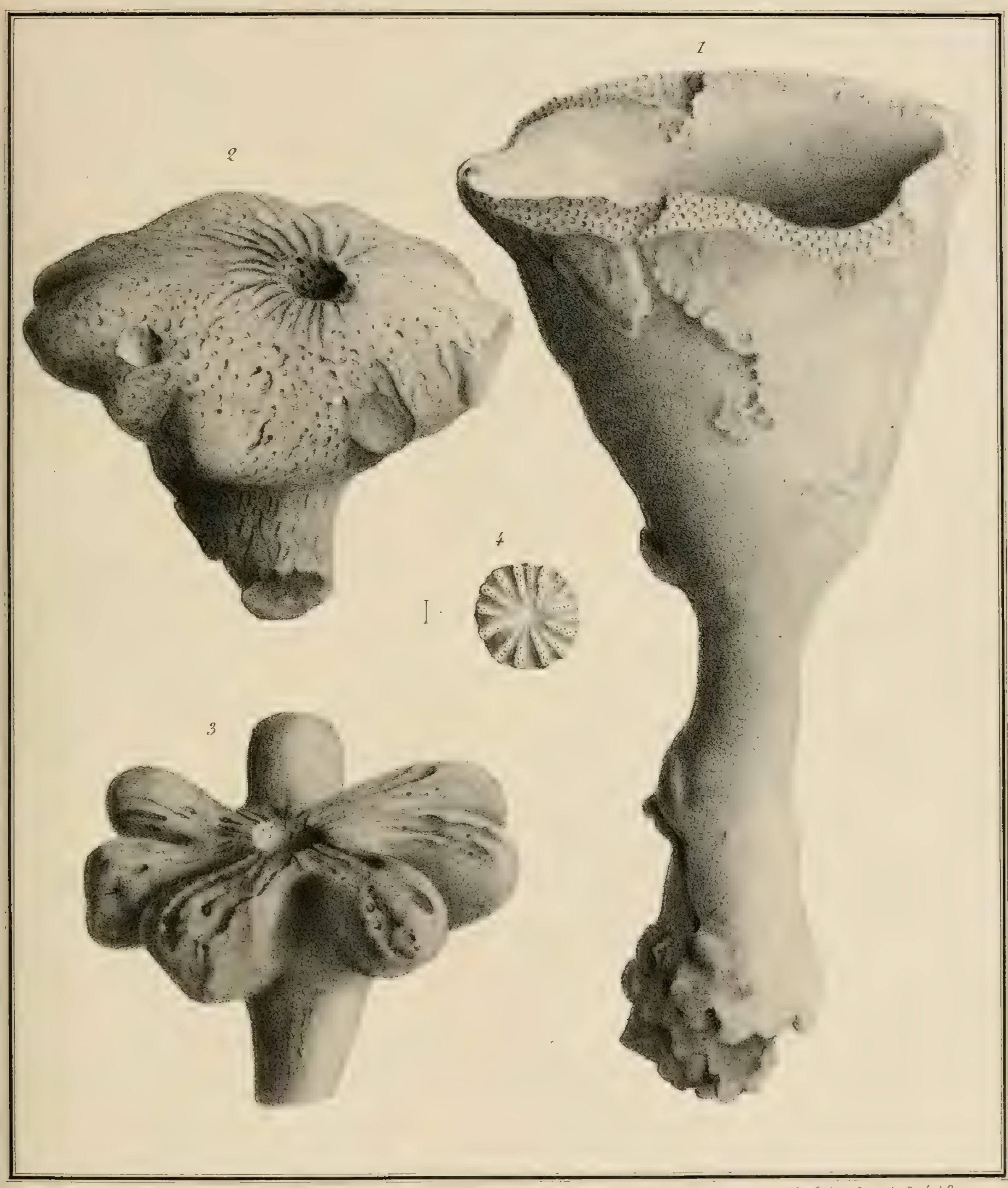
Ludovic Michelin in Lap.

Imp. Coudert r. Barre du bec 4. Paris

1 *Coenopora infundibuliformis.* Goldfuss.
2 *Spongia multiporella.* Michelin
3 *Nullipora mamillifera.*
4 *Scyphia terebrata.* Michelin
5 *Siphonia ficoïdea*
6 *Scyphia Filloni*



Guettardia stellata Michelin

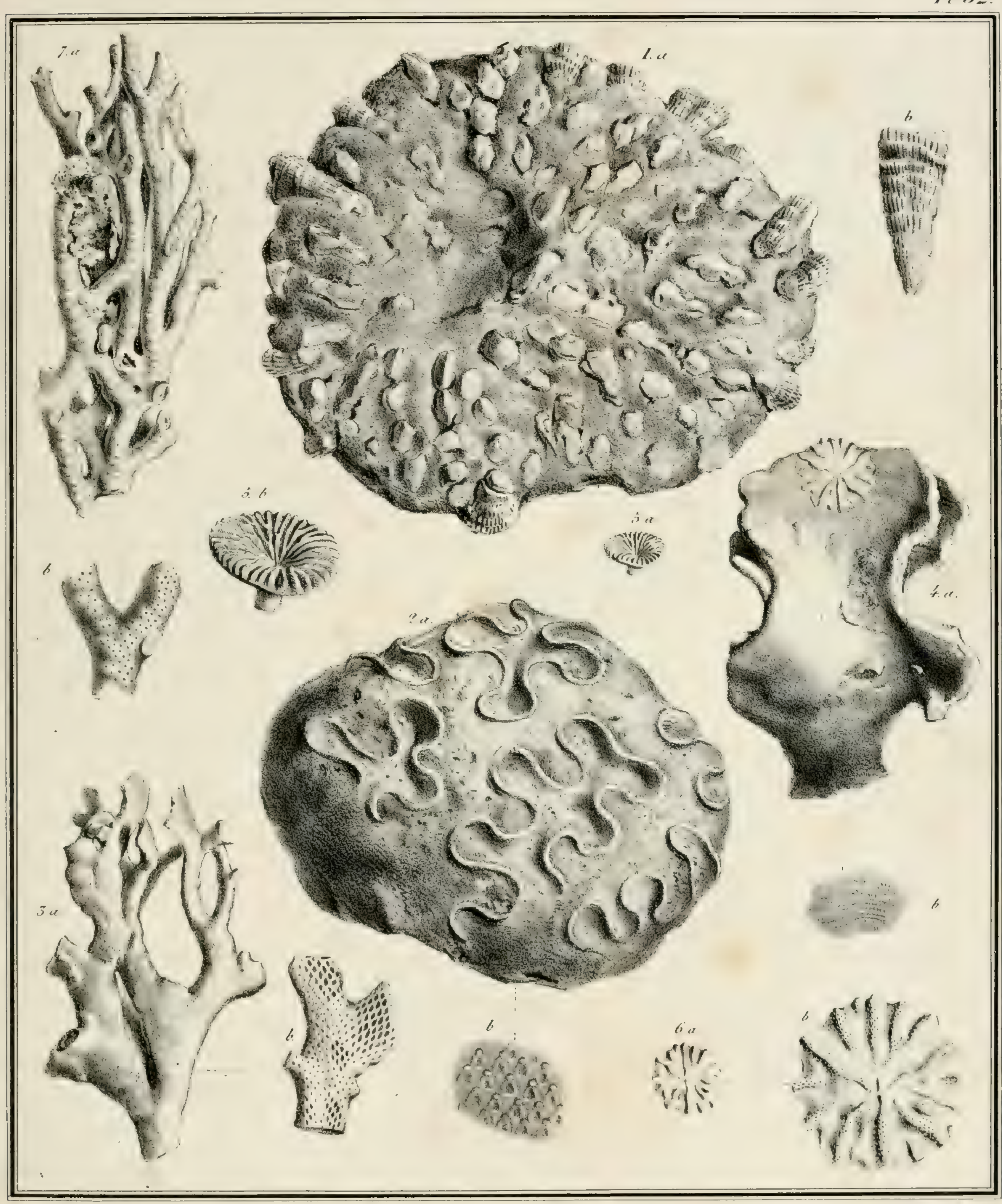


Ludovic Michelin in lap. *Imp Cordier r Barre-du-Bec 4 à Paris*

1 *Chenendopora Parkinsonis*, Michelin.
2 *Hallirhoa brevicostata.* ————
3 *Hallirhoa costata.* Lamouroux.
4 *Tubulipora Brongniartii.* M. Edwards.

GROUPE CRÉTACÉ

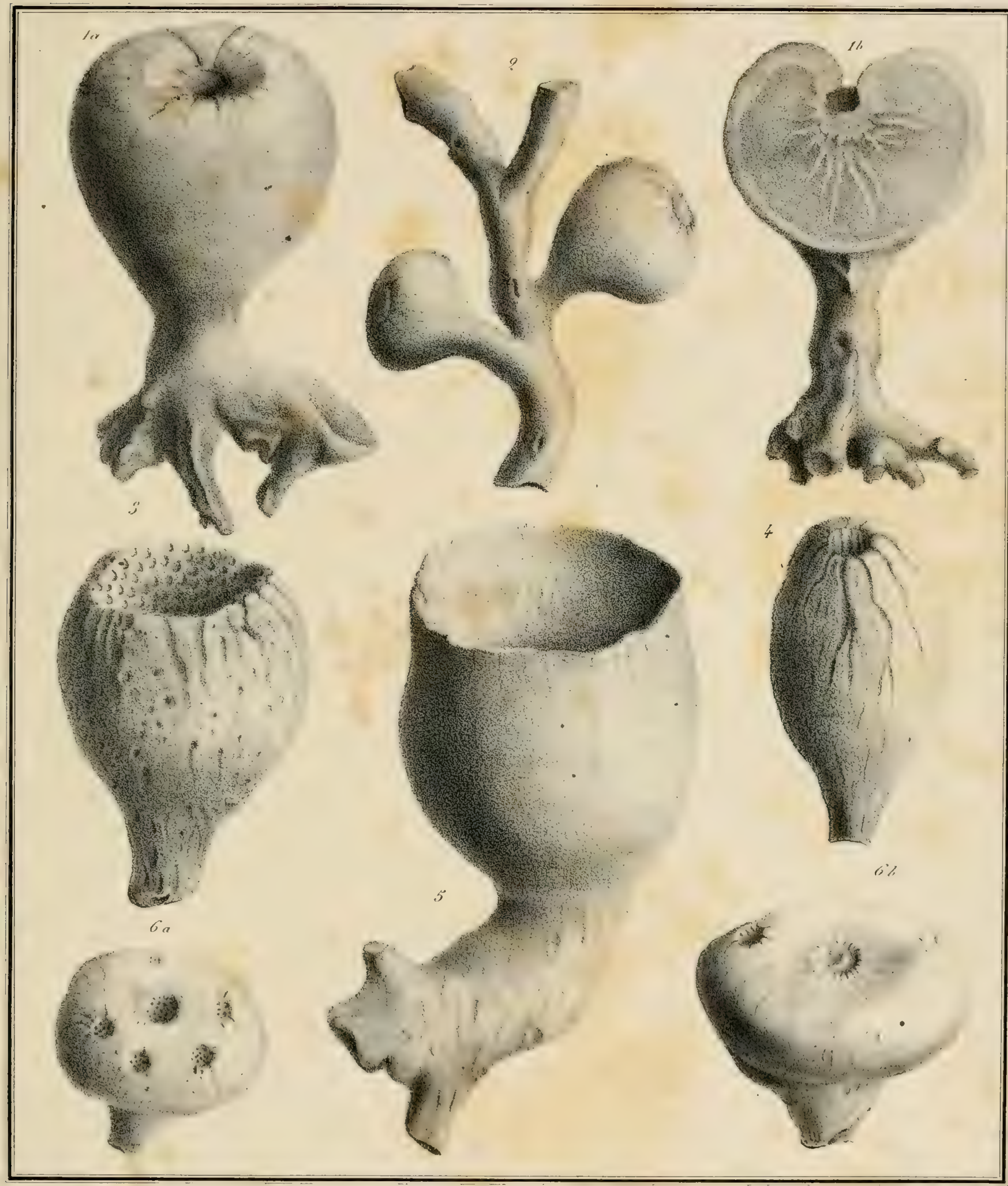
...ADOS, DE L'ORNE, D'INDRE & LOIRE, DE LOIR & CHER, &c



Ludovic Michelin in Lap.

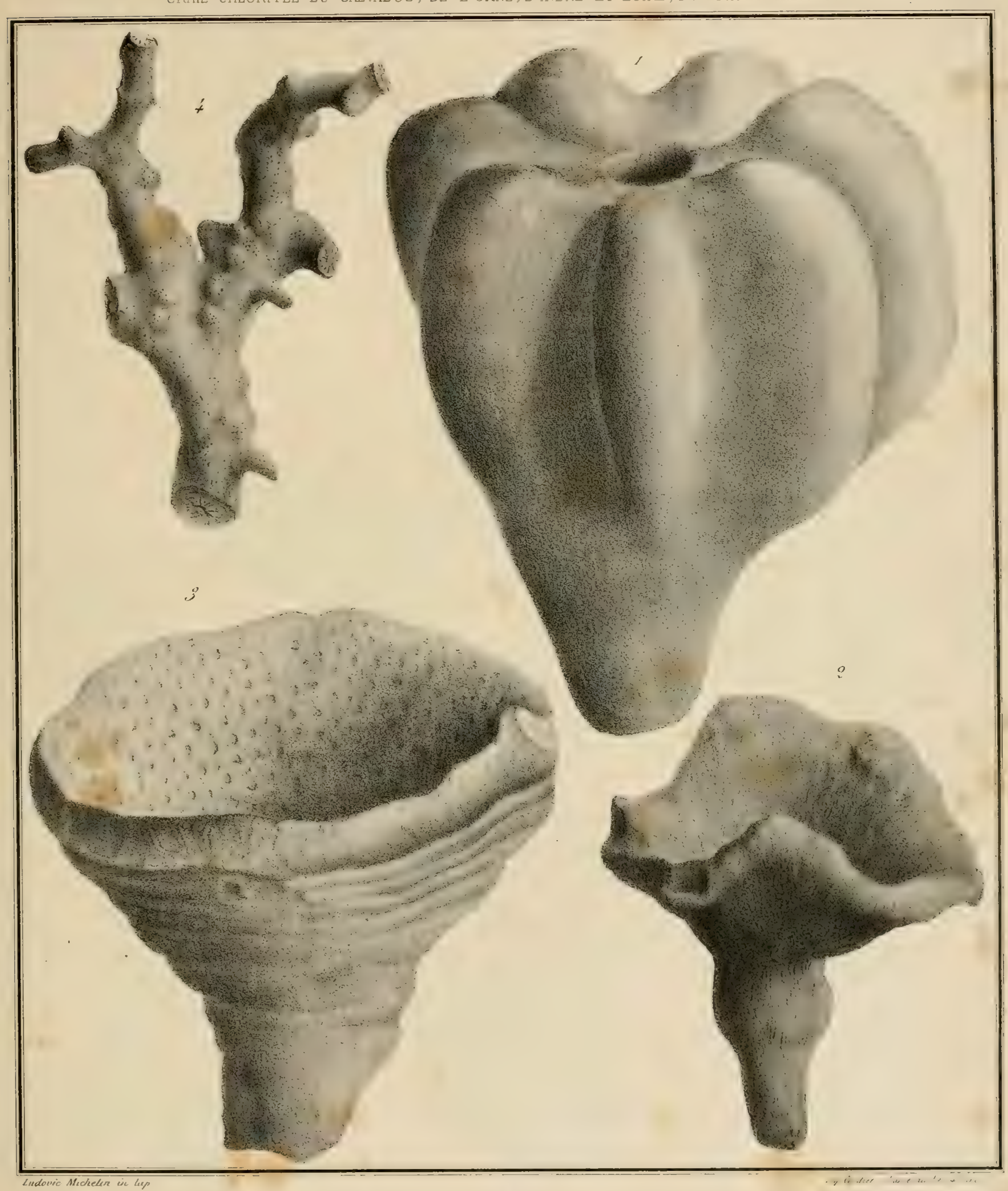
Lith. de Th...

1. *Polypothecia Fleuriausii.* Michelin.
2. *Eschara labyrinthica* ———
3. *Eschara Neustriaca.* Michelin.
4. *Guettardia expansa.* ———
5. *Pelagia Eudesii* ———
6. *Tubulipora elegans* Michelin
7. *Ceriopora papularia* ———



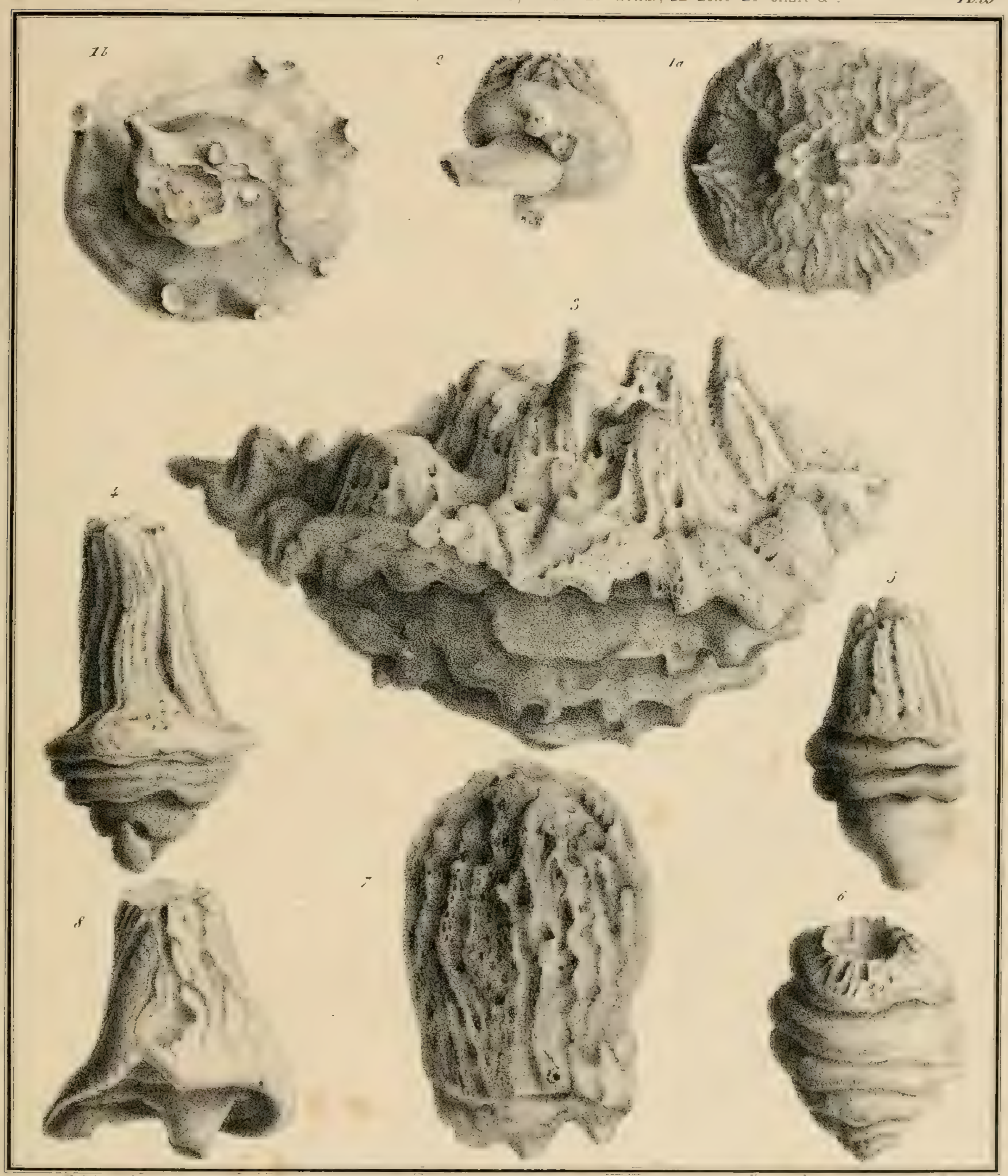
Ludovic Michelin in lap. Imp. Cordier

1 *Siphonia pyriformis.* Goldfuss.
2 ——— *arbuscula,* Michelin.
3 *Jerea excavata,* ———
4 *Siphonia nuciformis,* Michelin
5 *Chenendopora pocillum.* ———
6 *Siphonia multioculata* ———



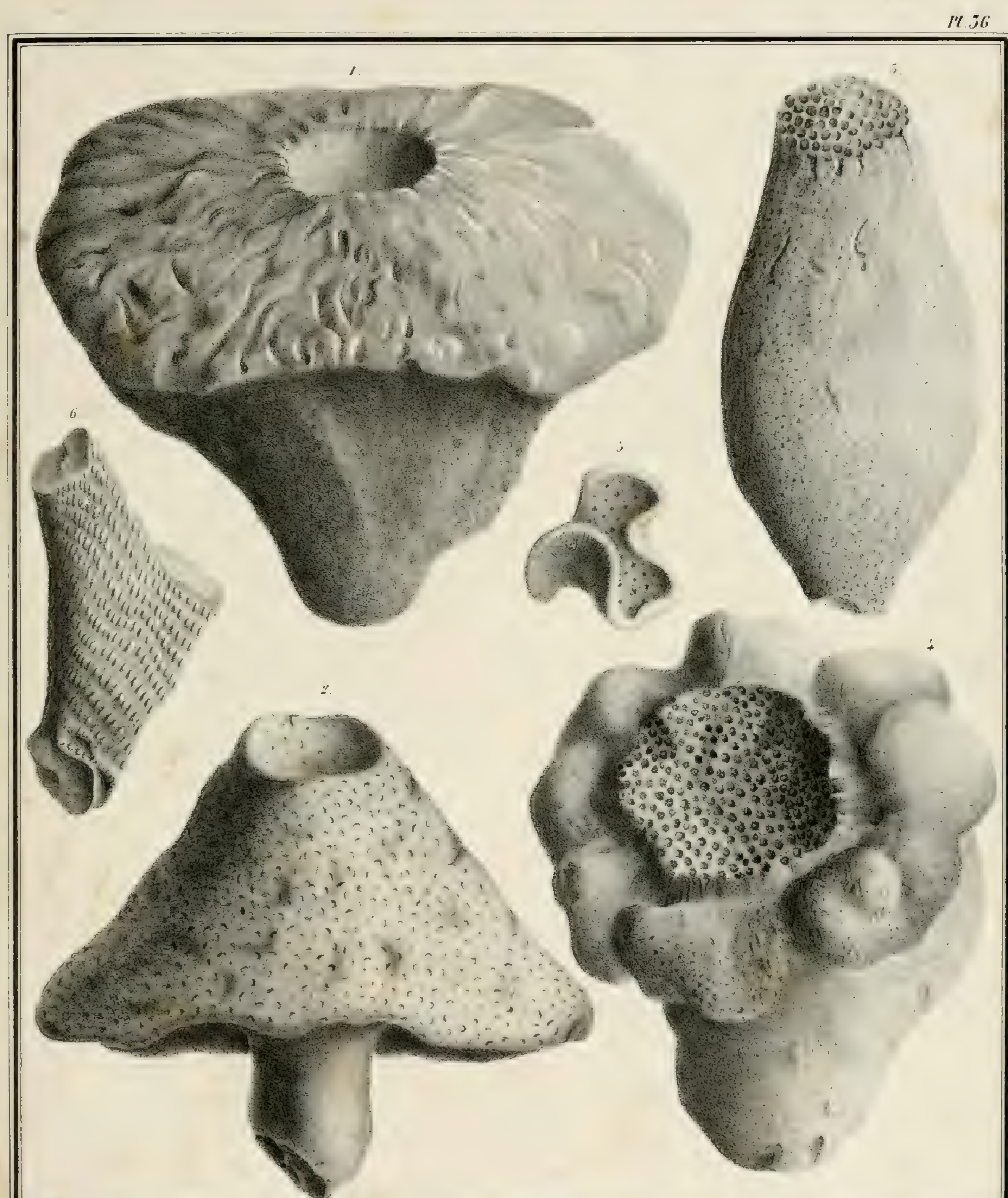
Ludovic Michelin in lap.

1 Hallirhoa Tessonis, Michelin.
2 Chenendopora fungiformis, Lamouroux.
3 Chenendopora undulata. Michelin.
4 Heteropora digitata. ———



Ludovic Michelin in lap.

Turonia variabilis. Michelin.



1. *Hippalimus Roissyii* Michelin. | 3. *Jerea pyriformis* Lamouroux. | 5. *Spongia peziza* Michelin
2. ——— *fungoïdes* Lamouroux. | 4. ——— *mutabilis* Defrance. | 6. *Retepora cylindrica* ———



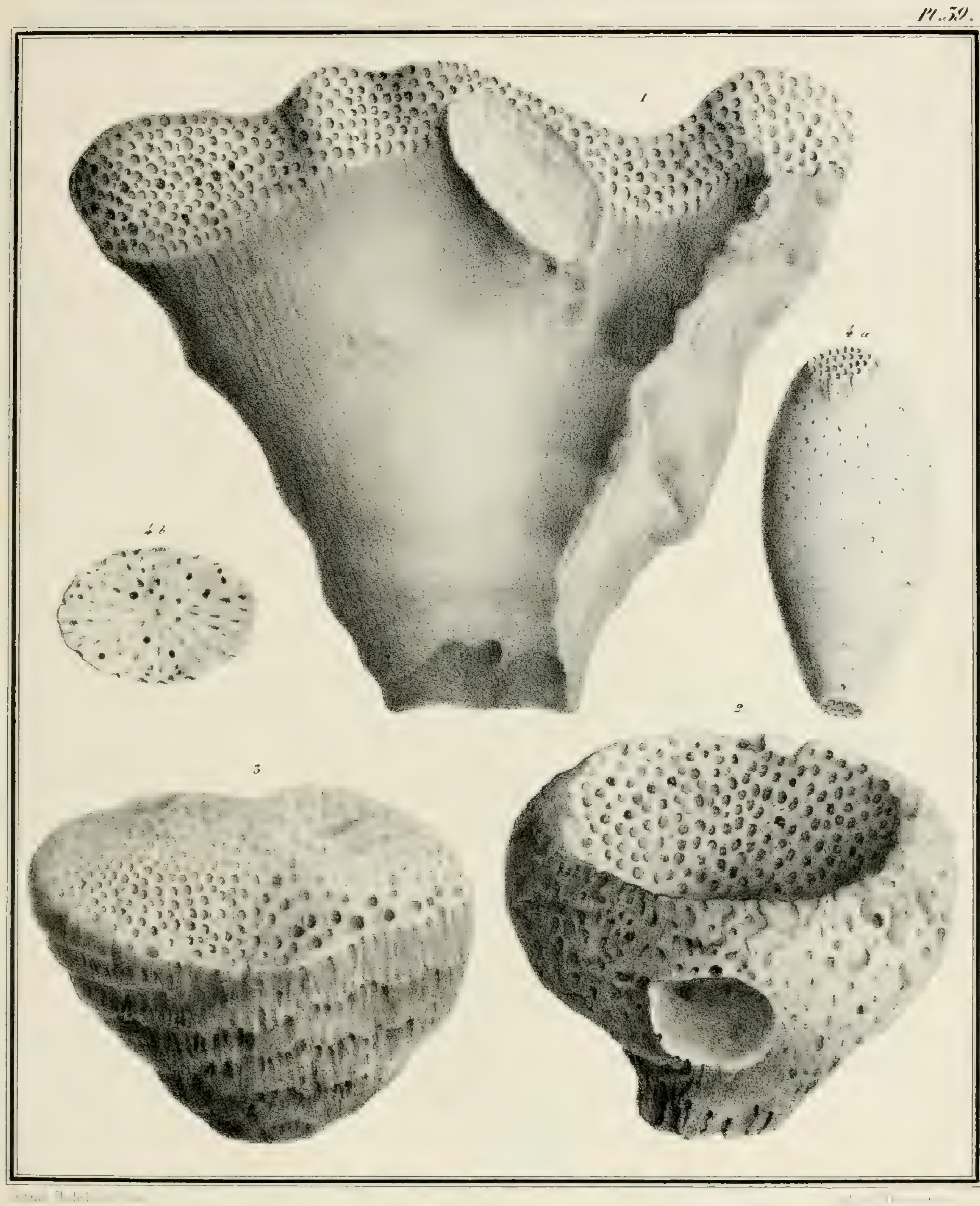
Ludovic Michelin in lap.

1 *Polypothecia Pictonica.* Michelin. 2 *Chenendopora pateræformis.* Michelin.



Ludovic Michelin in lap.   Imp Cordier r Barre du Bec 4 Paris

1 *Jerea gregaria* Michelin   2 *Siphonia acaulis* Michelin.
3 *Ventriculites Benettiæ* Mantell.

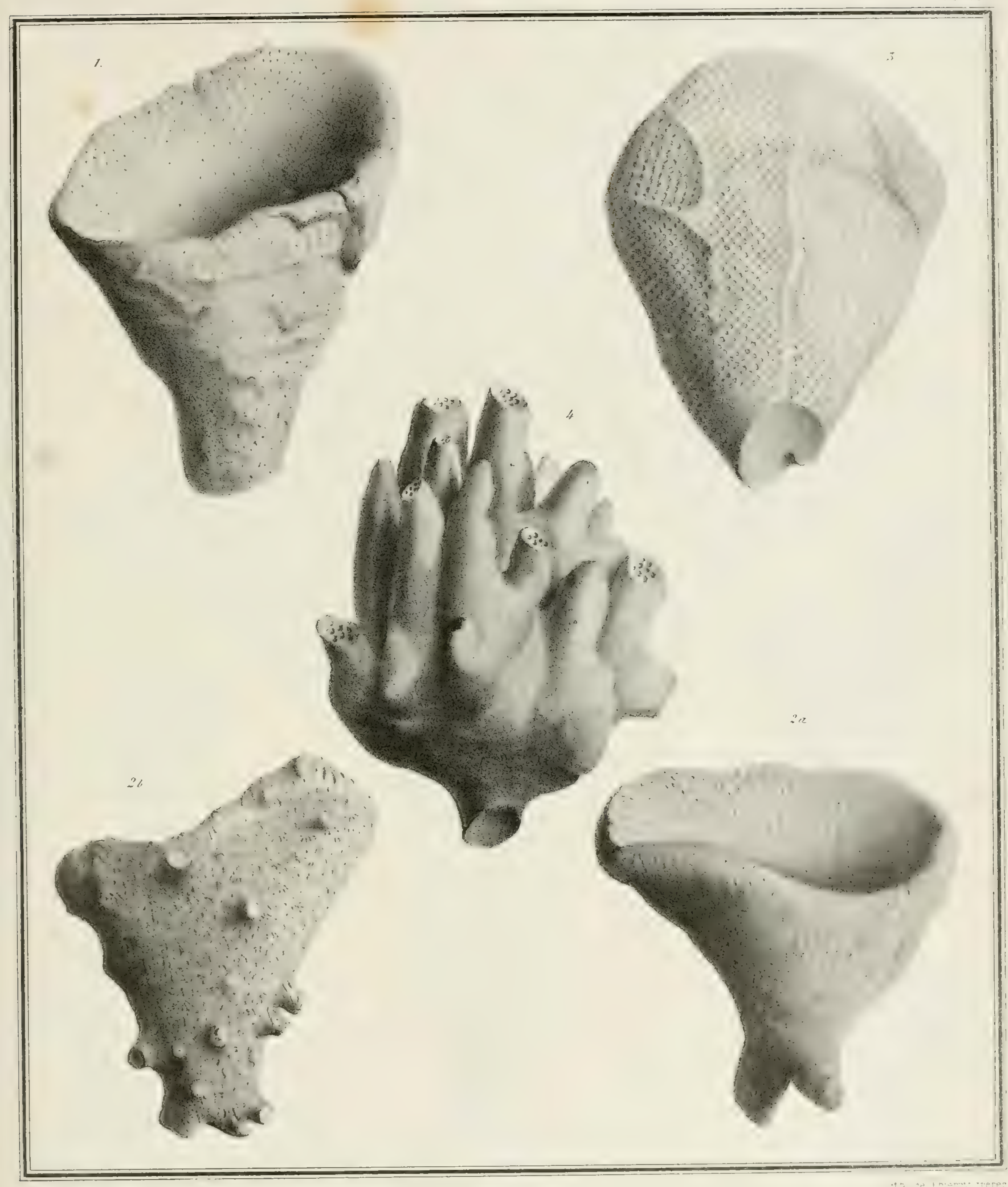


1. *Jerea Desnoyersii* Michelin
2. —— *excavata* ——
3. *Jerea tuberosa* Michelin
4. —— *elongata* ——

Pl. 40.



1	*Siphonia incrassata.*	Goldfuss	3.	*Ocellaria grandipora.*	Michelin
2.	*Chenendopora undulata.*	Michelin	4.	*Retepora crassa.*	———



Ludovic Michelin in Lap: Lith. de Thierry frères

1. *Chenendopora Subplena* Michelin.
2. ———— *obliqua* ————
3. *Ocellaria nuda.* Ramond.
4. *Jerea cespitosa* Michelin

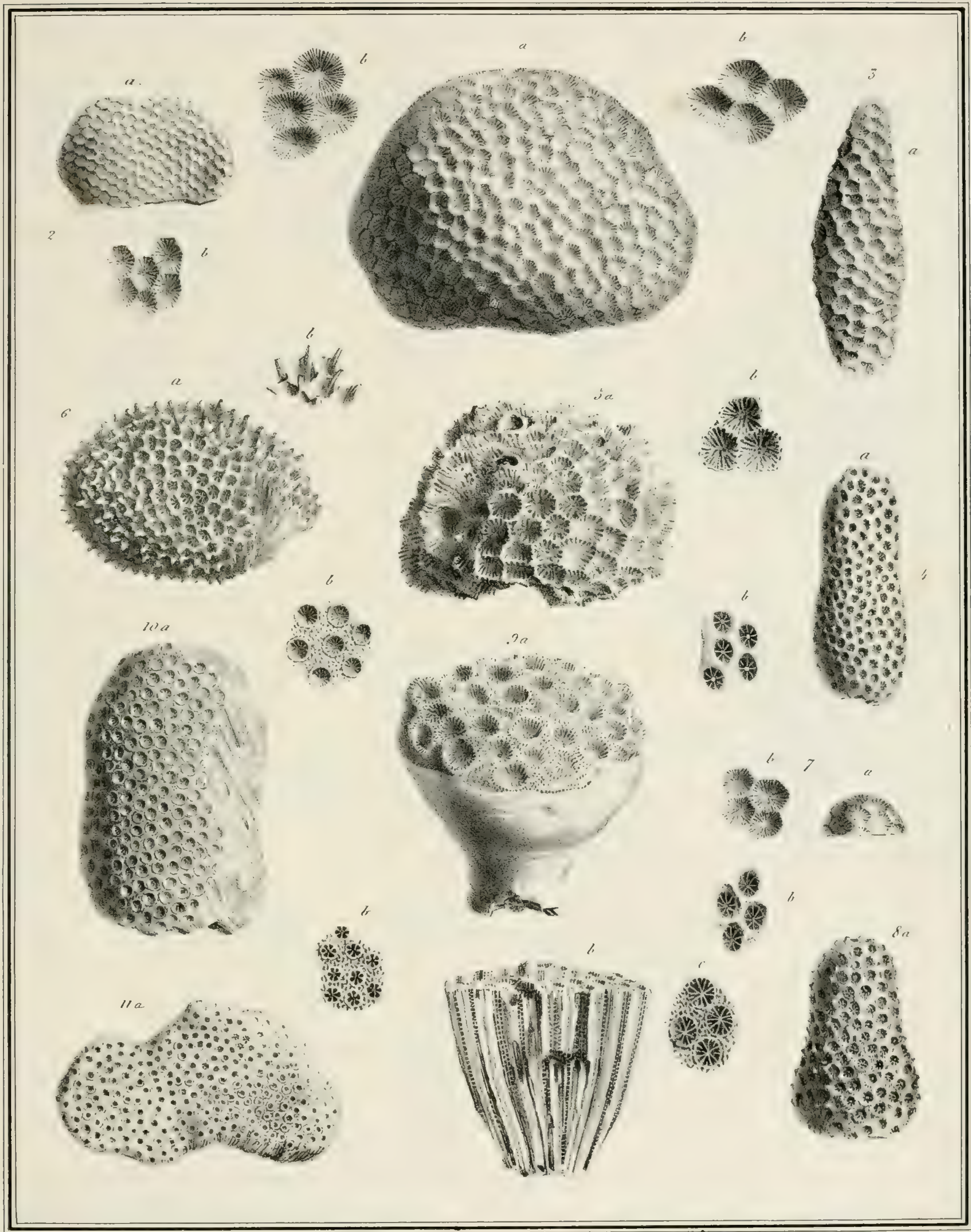


1. *Spongia contorto-lobata.* Michelin ‖ 2. *Jerea arborescens* Michelin



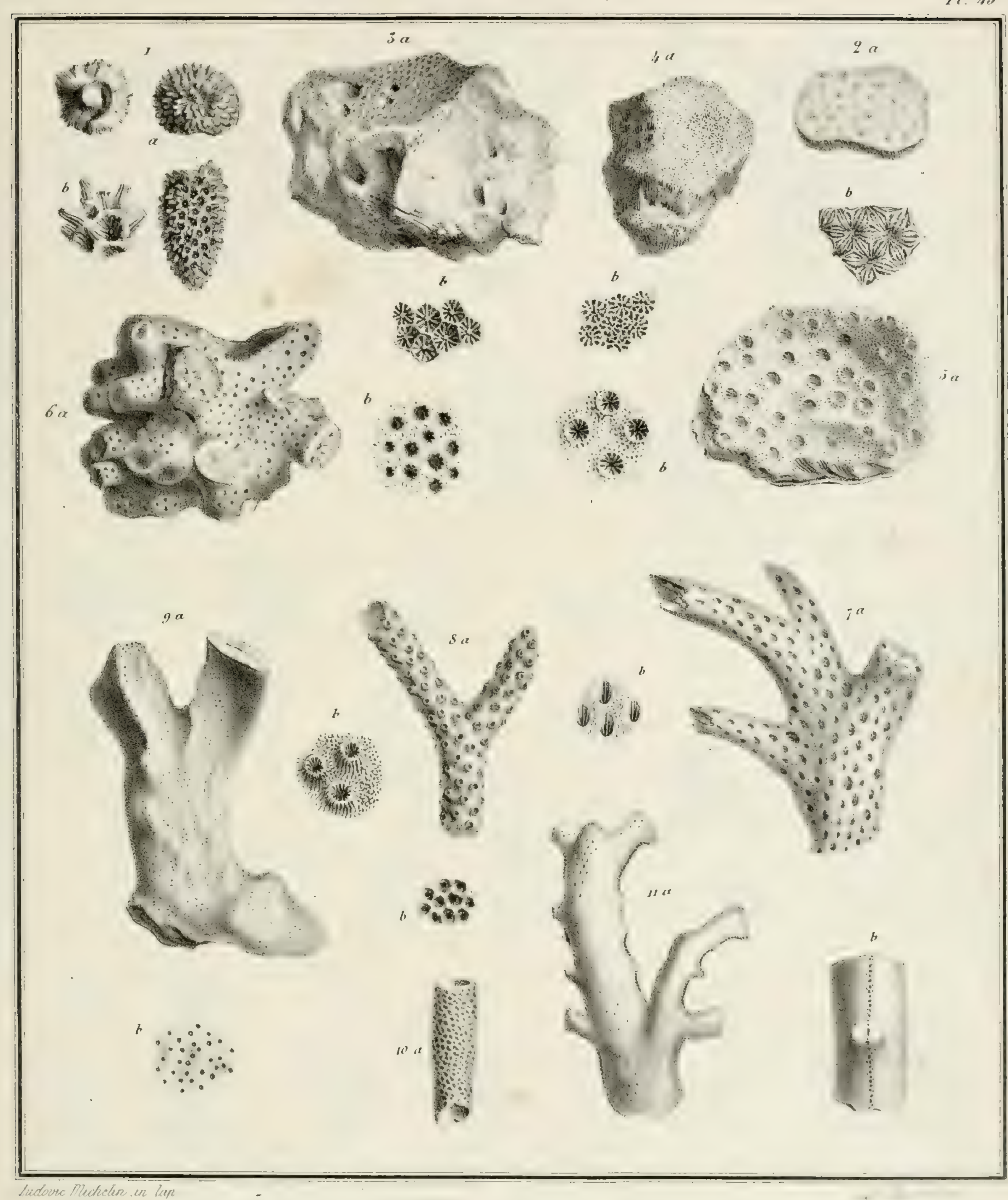
Ludovic Michelin in Lap.   Lith: de Thierry f.

1.	*Turbinolia crispa.*	Lamarck.
2.	——— *semigranosa.*	Michelin.
3.	——— *mixta.*	Defrance
4.	——— *sulcata.*	Lamarck.
5.	——— *dispar*	Defrance
6.	*Turbinolia elliptica.*	Al. Brongniart
7.	——— *Gravesii.*	Michelin.
8.	*Anthophyllum distortum*	———
9	*Caryophyllia truncata*	———
10.	*Dendrophyllia cariosa.*	———
16.	*Oculina raristella.*	Defrance.
17	*Madrepora ornata*	———
11.	*Lobophyllia Parisiensis.*	Michelin
12.	*Agaricia infundibuliformis.*	———
13.	*Meandrina Valmondoisiaca*	———
14.	*Lithodendron irregulare.*	———
15.	*Oculina Solanderi*	Defrance.



Ludovic Michelin in Lap: Lith: de Thierry fr

1. *Astrea crenulata*. Goldfuss.
2. ——— *bellula*. Michelin.
3. ——— *Ameliana*. Defrance.
4. ——— *cylindrica*. ———
5. *Astrea hirtolamellata*. Michelin.
6. ——— *emarciata*. Defrance.
7. ——— *crispa*. Michelin.
8. ——— *decorata* ———
9. *Astrea sphæroidalis*. Michelin
10. ——— *Auvertiaca* ———
11. ——— *panicea* ———

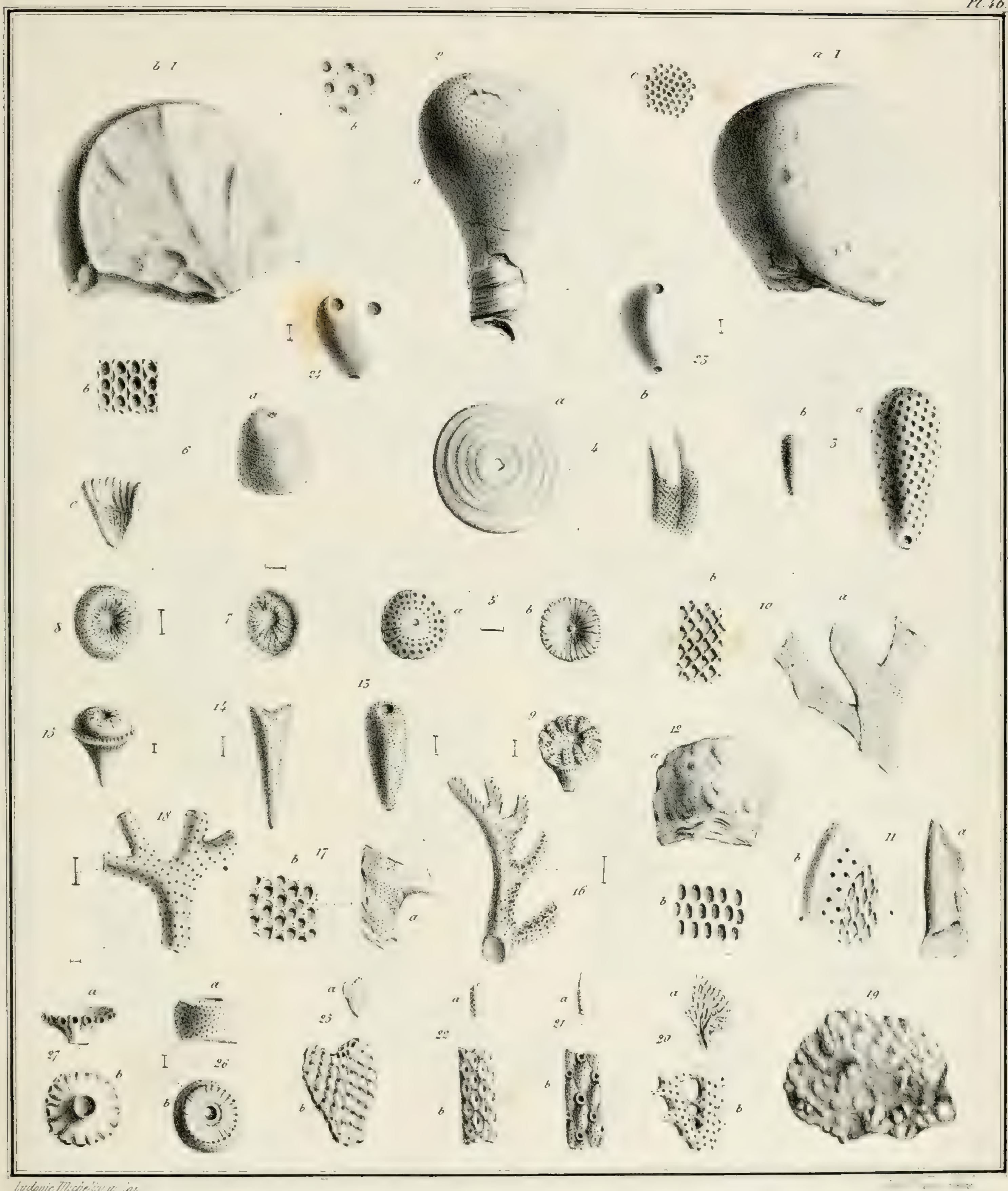


Ludovic Michelin in lap

1.	*Astrea*	*Hystrix*.	Defrance
2.	———	*tessellata*.	Michelin
3.	———	*microstella*.	———
4.	*Porites*	*Deshayesiana*	———
5.	*Gemmipora*	*asperrima*.	Michelin
6.	*Heliopora*	*deformis*.	———
7.	*Madrepora*	*Solanderi*.	Defrance
8.	———	*Gervillii*	———
9.	*Palmipora*	*Solanderi*.	Michelin
10.	*Alveolites*	*Parisiensis*	———
11.	*Distichopora*	*antiqua*.	Defrance

GROUPE SUPRACRÉTACÉ.

BASSIN PARISIEN.

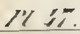


Ludovic Michelin [illegible]

1.	Chaetites	pomiformis.	Michelin
2.	Geodia	pyriformis.	———
3.	Dactylopora	cylindrica.	Lamarck
4.	Orbitolites	complanata.	———
5.	Lunulites	radiata.	———
6.	———	urceolata.	———
7.	Tubulipora	Grignonensis.	———
8.	———	stelliformis.	Michelin
9.	Lichenopora	Defranciana.	———
10.	Flustra	Duvaliana.	Michelin
11.	Eschara	milleporacea.	M Edwards
12.	Membranipora	philostracites.	Michelin
13.	Polytripa	elongata.	Defrance
14.	Acicularia	Pavantina.	D'Archiac
15.	Turbinia	graciosa.	Michelin
16.	Idmonea	coronopus.	Defrance
17.	Eschara	excavata.	Michelin
18.	Hornera	hippolythus.	Defrance
19.	Nullipora	granulosa	Michelin
20.	Retepora	Ferussacii	———
21.	Vincularia	fragilis	Defrance
22.	Vaginopora	———	———
23.	Ovulites	margaritacea	Lamarck
24.	———	———	V^{tas}
25.	Eschara	damaecornis	Michelin
26.	Uteria	encrinella	———
27.	Clypeina	marginiporella	———

GROUPE DE TRANSITION.

ENVIRONS DE BOULOGNE SUR MER

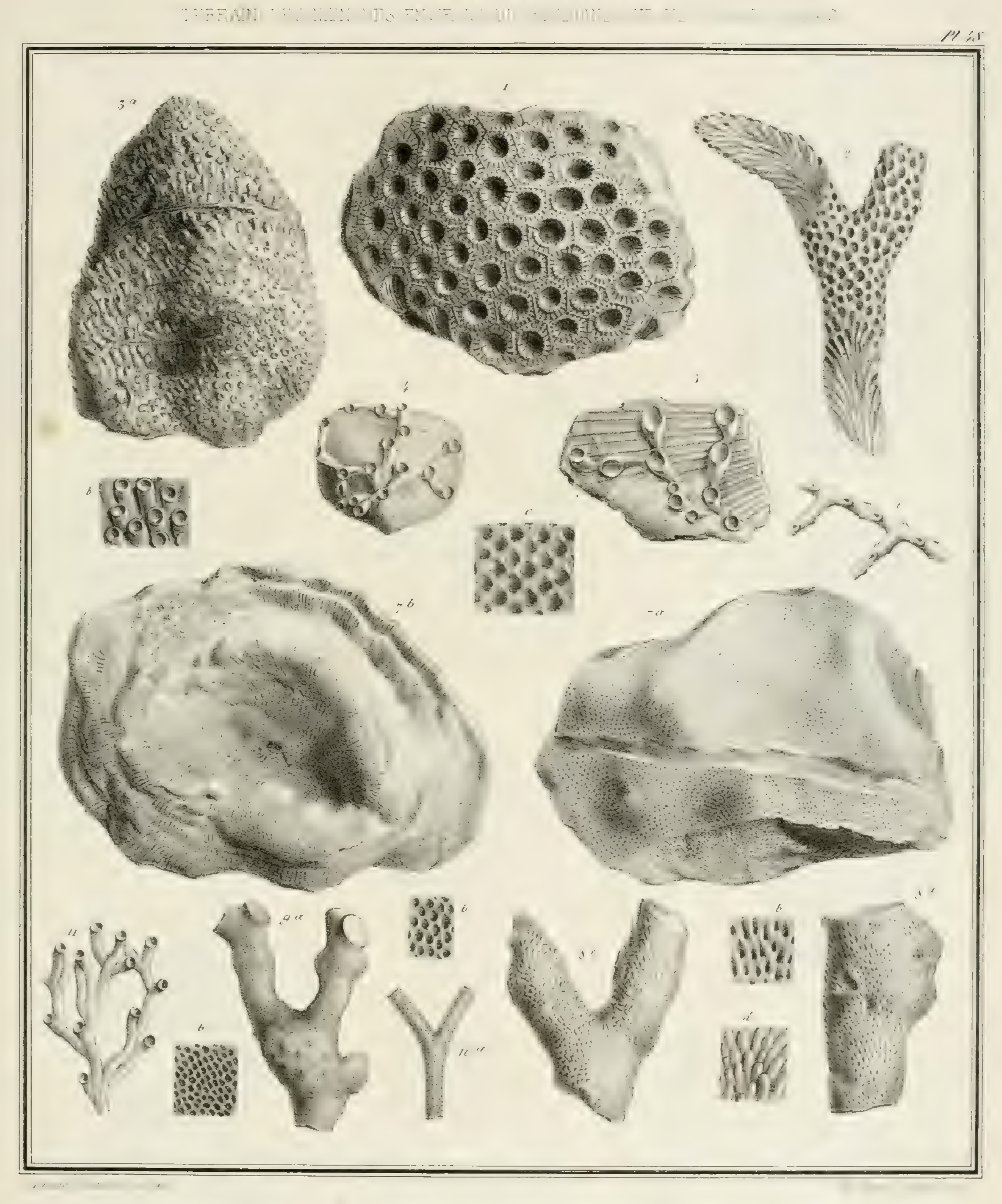


1. *Acervularia ananas* Michelin.
2. *Cyathophyllum hexagonum* Goldfuss
3. ———— *Ceratites* ————

4. *Cyathophyllum Dianthus* Goldfuss.
5. ———— *cæspitosum* ————
6. ———— *flexuosum* ————

7. *Cyathophyllum mitratum* Schlotheim.
8. *Caninia cornu bovis* Michelin

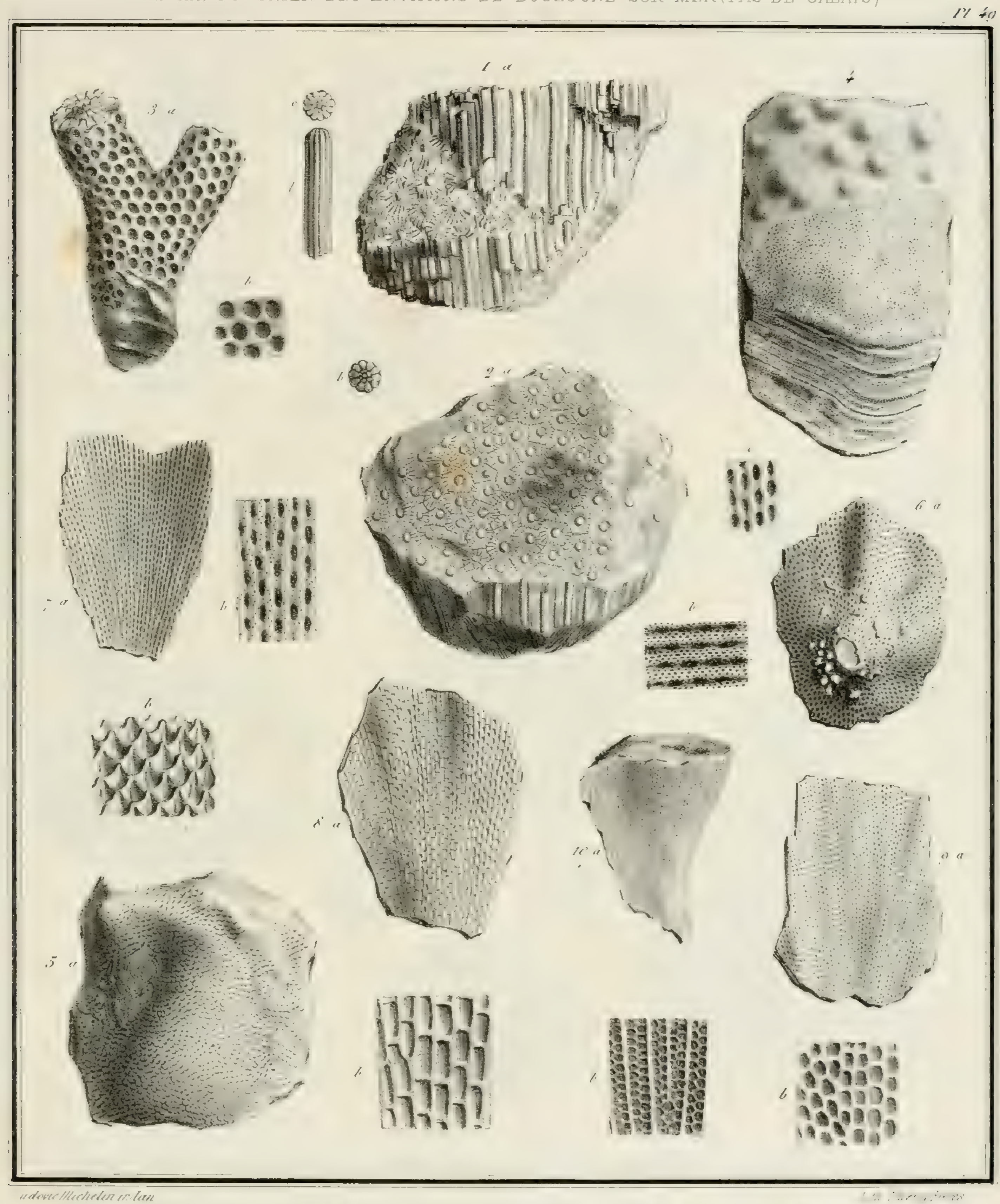
GROUPE DE TRANSITION.



1. *Cyathophyllum profundum*. Michelin.
2. *Alveolites cervicornis*. Blainville.
3. *Harmodites Bouchardi*. Michelin.
4. *Aulopora tubæformis*. Goldfuss.
5. *Aulopora cucullina*. Michelin.
6. *Dendropora explicita*. ———
7. *Calamopora suborbicularis*. ———
8. ——— *spongites*. Goldfuss
9. *Ceriopora Goldfussii*. Michelin
10. ——— *affinis*. Goldfuss
11. *Criserpia Boloniensis*. Michelin

GROUPE DE TRANSITION.

TERRAIN DEVONIEN DES ENVIRONS DE BOULOGNE SUR MER (PAS-DE-CALAIS)

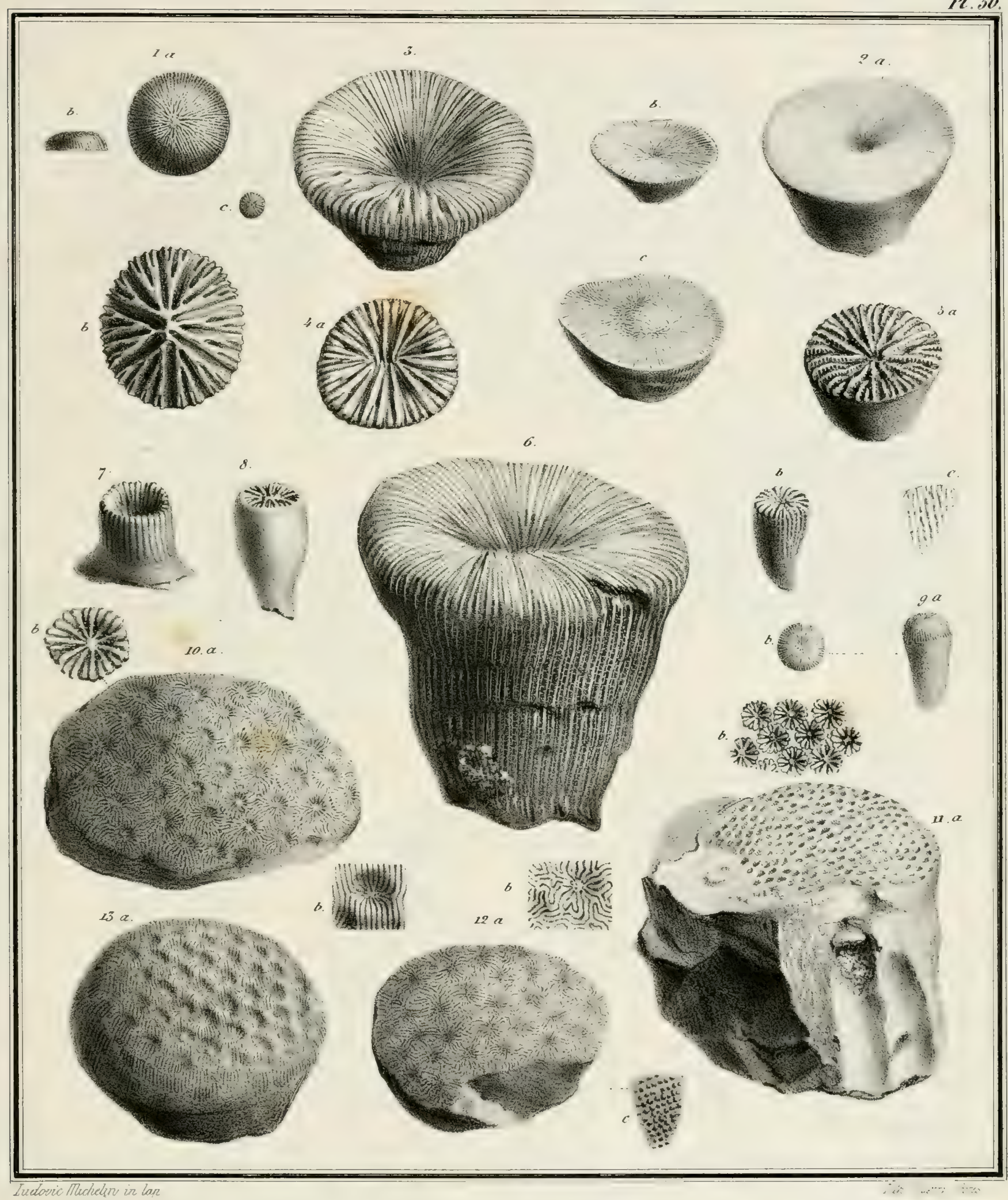


Adolphe Michelin ad nat.

1	*Accervularia*	*ananas*	Michelin
2	————	*pentagona*	————
3	*Urceolites*	*cornicornis*	V.te Blainville
4	*Stromatopora*	*concentrica*	Goldfuss
5	*Calamopora*	*squammosa*	Michelin
6	*Retepora*	*infundibulum*	Lonsdale
7	————	*retiformis*	Michelin
8	*Gorgonia*	*Bouchardi*	Michelin
9	————	*ripisteria*	Goldfuss
10	*Fenestella*	*Verneuiliana*	Michelin

GROUPE CRÉTACÉ.

GRÈS VERT DES ENVIRONS DU MANS. (SARTHE)

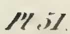


Ludovic Michelin in lap.

1. Cyclolites semiglobosa. Michelin.
2. Anthophyllum patellatum. ———
3. ——— pateriforme. ———
4. ——— inequale. ———
5. Anthophyllum sulcatum. Michelin.
6. ——— dispar ———
7. ——— nanum. ———
8. Cariophyllia Cenomana. ———
9. ——— striatulala ———
10. Astrea micraxona. Michelin.
11. ——— Desportesiana. ———
12. ——— agaricites. Goldfuss.
13. ——— decipiens. Michelin.

GROUPE CRÊTACÉ.

GRES VERT DES ENVIRONS DU M[illegible]



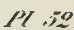
Ludovic Michelin in lap.

Lith. de Thierry frères

1. *Meandrina ambigua.* Michelin	4. *Astrea superposita.* Michelin	7. *Ceriopora truncata.* Michelin
2. *Agaricia Ludovicina.* ———	5. *Chaetites ramulosus.* ———	8. *Heteropora suraulacea.* ———
3. *Oculina explanata.* ———	6. ——— *lobatus.* ———	9. *Spongia multidigitata.* ———

GROUPE CRÈTACÉ.

GRES VERT DES ENVIRONS DU MANS (SARTHE).

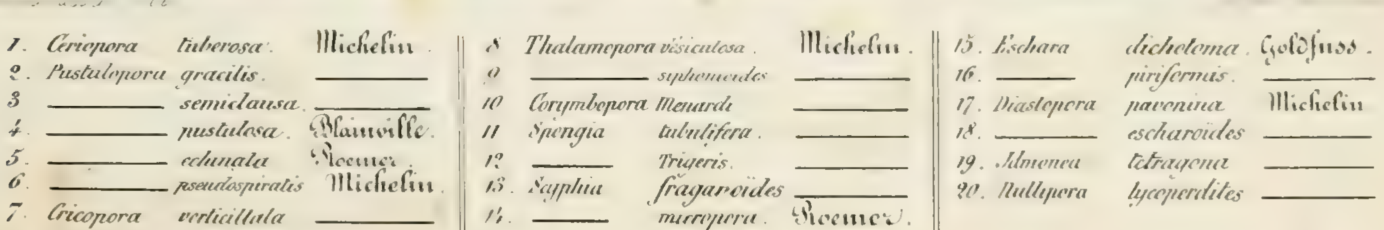


Ludovic Michelin in lap.

1. *Pelagia infundibulum* Michelin.
2. —— *insignis* ——
3. *Diastopora ramosa* ——
4. *Alecto granulata* M. Edwards.
5. *Ceriopora licheniformis* Michelin.
6. —— *formosa* ——
7. *Ceriopora Huotiana* Michelin.
8. —— *clavula* ——
9. *Idmonea pinnata* Roemer.
10. —— *aculeata* Michelin.
11. *Ceriopora labyrinthica* ——
12. —— *mamillosa* Roemer.
13. *Ceriopora avellana* Michelin
14. *Lichenopora Cenomana* ——
15. *Spongia informis* ——
16. *Lymnorea spherica* ——
17. *Chenendopora cylindrica* ——
18. *Idmonea disticha* ——

GROUPE CRÊTACÉ

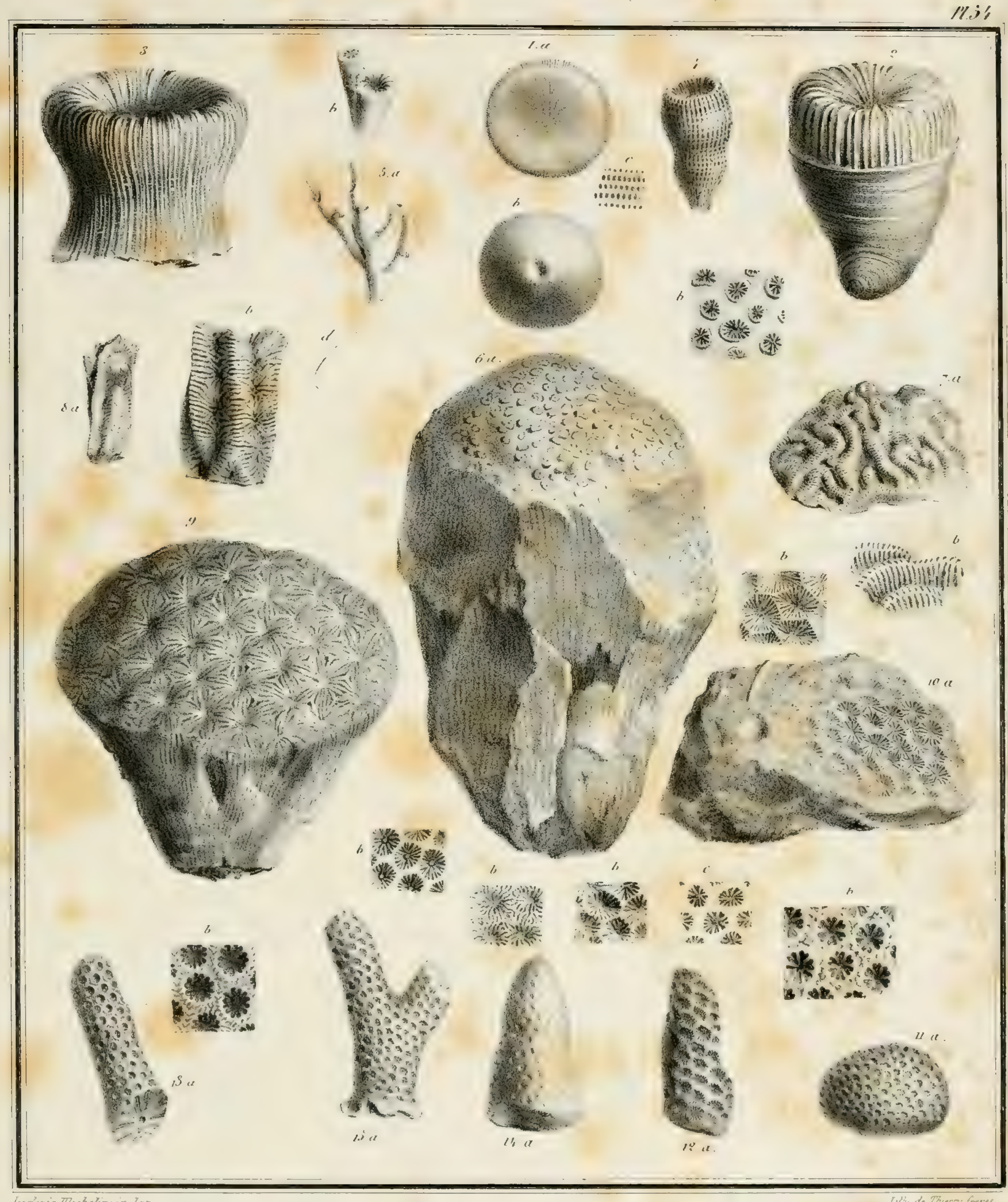
[illegible]



1.	Ceriopora	tuberosa.	Michelin.
2.	Pustulopora	gracilis.	———
3	———	semiclausa.	———
4.	———	pustulosa.	Blainville.
5.	———	echinata	Roemer.
6.	———	pseudospiralis	Michelin.
7.	Cricopora	verticillata	———
8	Thalamopora	vesiculosa.	Michelin.
9	———	siphonoides	———
10	Corymbopora	Menardi	———
11	Spongia	tubulifera.	———
12	———	Trigeris.	———
13.	Scyphia	fragaroïdes	———
14.	———	micropora.	Roemer.
15.	Eschara	dichotoma.	Goldfuss.
16.	———	piriformis.	———
17.	Diastopora	pavonina	Michelin
18.	———	escharoïdes	———
19.	Idmonea	tetragona	———
20.	Nullipora	lycoperdites	———

GROUPE OOLITHIQUE.

FOREST-MARBLE DE LUC, RANVILLE &c.a (CALVADOS)

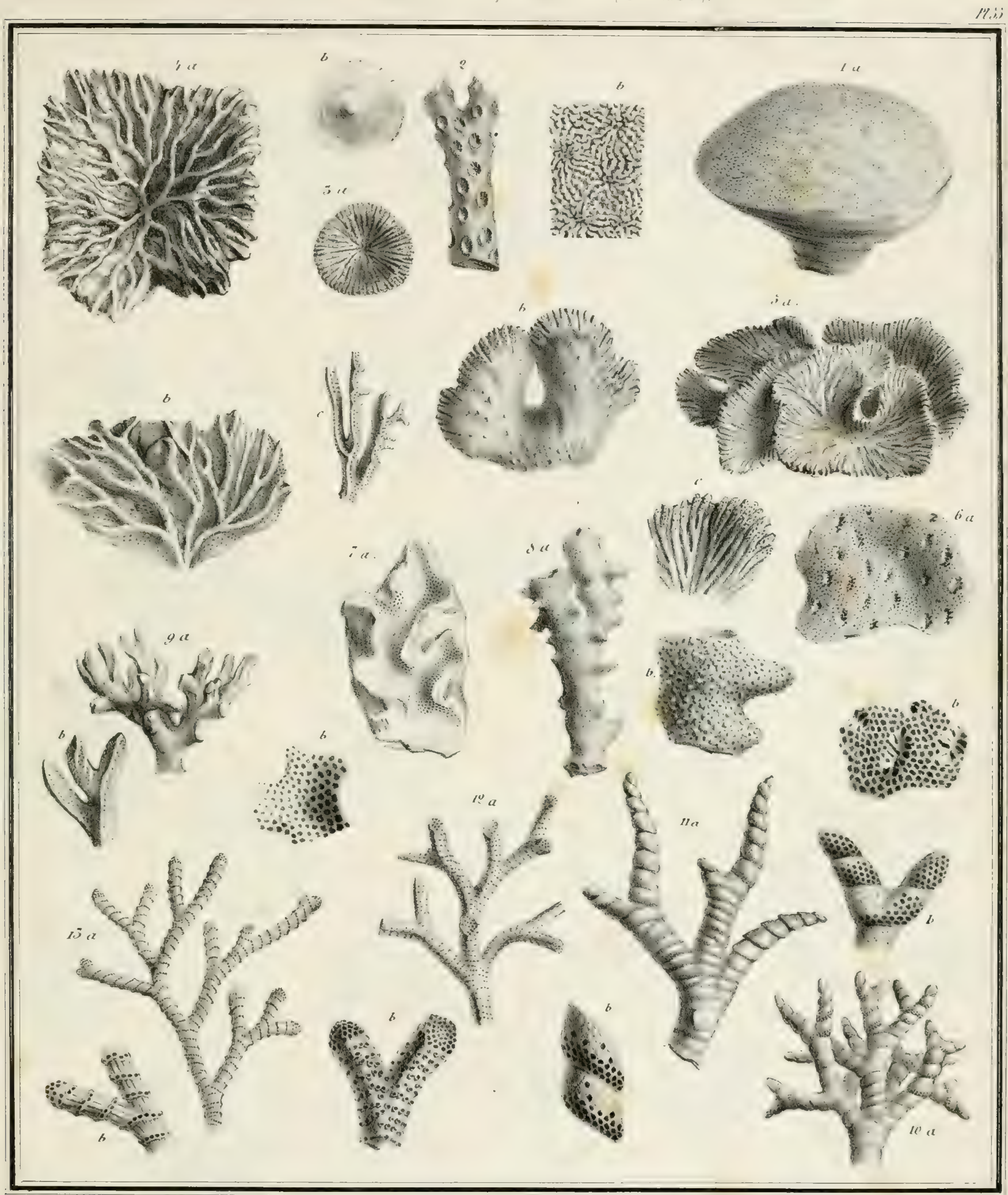


Ludovic Michelin in lap. — Lith. de Thierry frères

1. *Fungia orbulites.* Lamouroux
2. *Montlivaltia caryophyllata.* ———
3. *Anthophyllum truncatum.* Michelin
4. *Caryophyllia retorta.* ———
5. *Oculina gemmata.* ———
6. *Lithodendron Eunomia.* Michelin.
7. *Meandrina venustula.* ———
8. *Agaricia ramulosa.* ———
9. *Astrea Lamourouxii* ———
10. ——— *limitata.* Lamouroux.
11. *Astrea bacciformis.* Michelin
12. ——— *dissimilis.* ———
13. *Pocillopora sertifera* ———
14. *Astrea Cadomensis.* ———
15. ——— *digitata* Defrance

GROUPE OOLITHIQUE

FOREST-MARBLE DE LUC, RANVILLE &ª (CALVADOS).



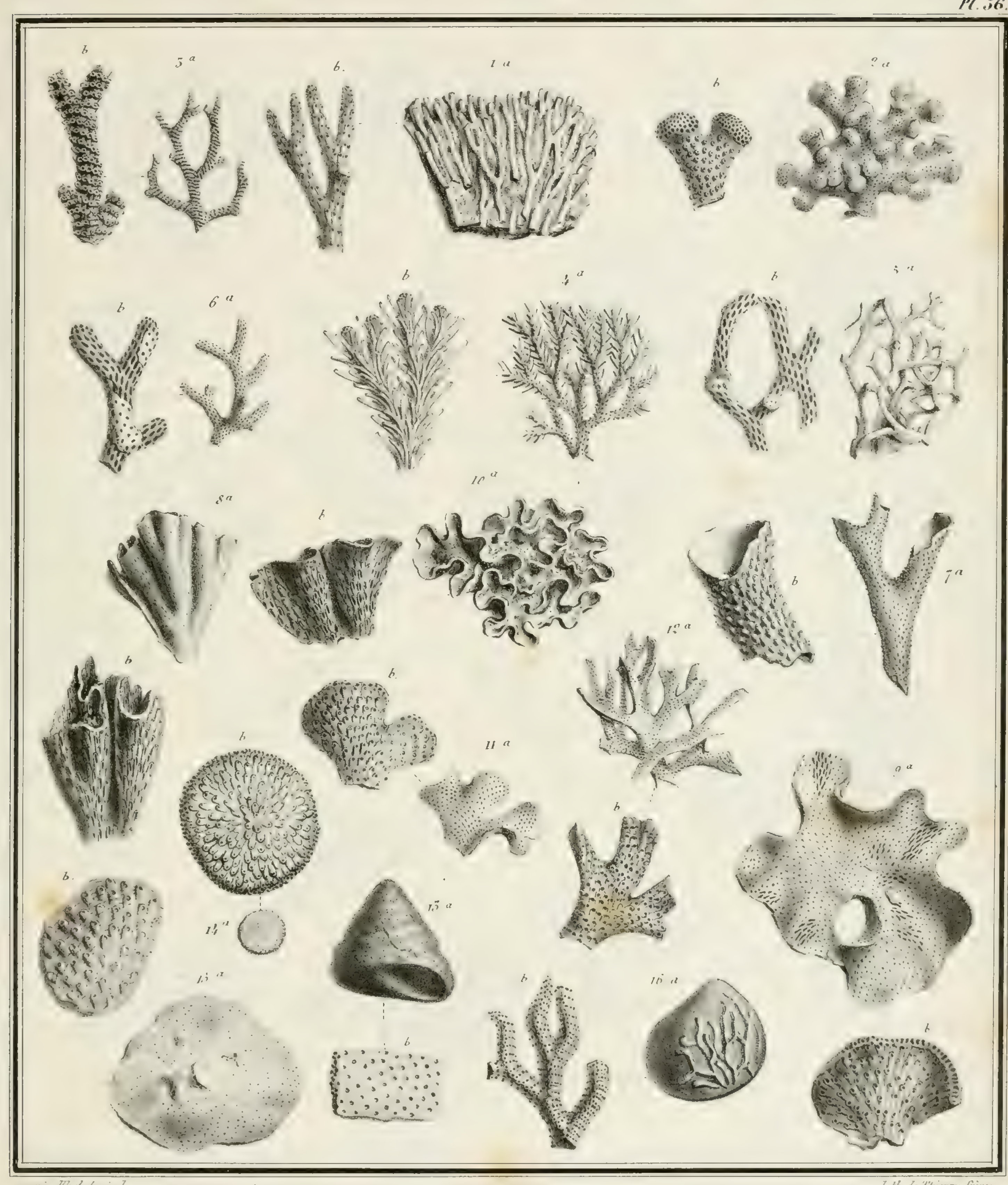
Ludovic Michelin ad Nat. | Lith. de Thierry frère.

1.	*Alveopora*	*Microsolena*.	Michelin.
2.	*Oculina*	*Neustriaca*.	————
3.	*Pelagia*	*clypeata*.	Lamouroux.
4.	*Apsendesia*	*dianthus*.	Blainville.
5.	————	*cristata*.	Lamouroux.
6.	*Theonoa*	*clathrata*.	Lamouroux.
7.	*Tilesia*	*contorta*.	————
8.	*Chrysaora*	*spinosa*.	Michelin.
9.	————	*damæcornis*.	Lamouroux
10.	*Terebellaria*	*ramosissima*.	————
11.	*Terebellaria*	*Antilope*.	Lamouroux
12.	*Cricopora*	*tetragona*.	Blainville.
13.	————	*elegans*.	————

GROUPE OOLITHIQUE.

FOREST MARBLE DE LUC, RANVILLE &ª (CAL[illegible])

Pl. 36.

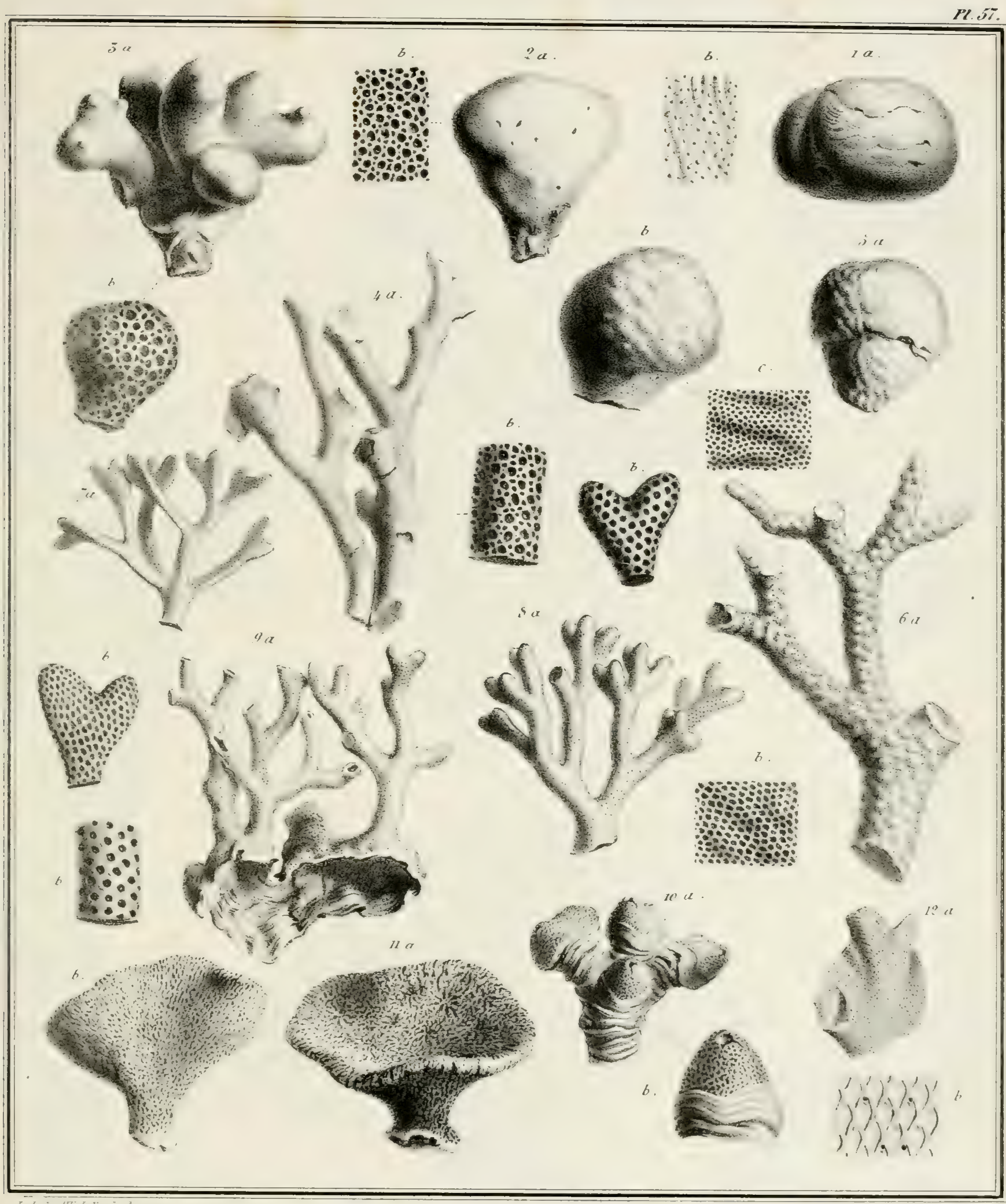


vie Michelin in Lap. — Lith de Thierry frères

1.	*Cricopora*	*cespitosa.*	Blainville.	7.	*Diastopora*	*Lamourouxii*	M. Edwards.	13.	*Diastopora*	*diluviana.*	M. Edwards.
2.	———	*abbreviata.*	———	8.	———	*foliacea.*	Lamouroux	14.	———	*verrucosa.*	———
3.	———	*verticillata.*	Michelin.	9.	———	*Eudesiana.*	M. Edwards.	15.	———	*undulata.*	Michelin.
4.	*Entalophora*	*cellarioïdes.*	Lamouroux.	10.	———	*Michelinii.*	———	16.	———	*triquetra.*	Lamouroux.
5.	*Intricaria*	*Bajocensis.*	Defrance.	11.	———	*lamellosa.*	Michelin.				
6.	*Cricopora*	*Tessonis.*	Michelin.	12.	———	*cervicornis*	———				

GROUPE OOLITHIQUE.

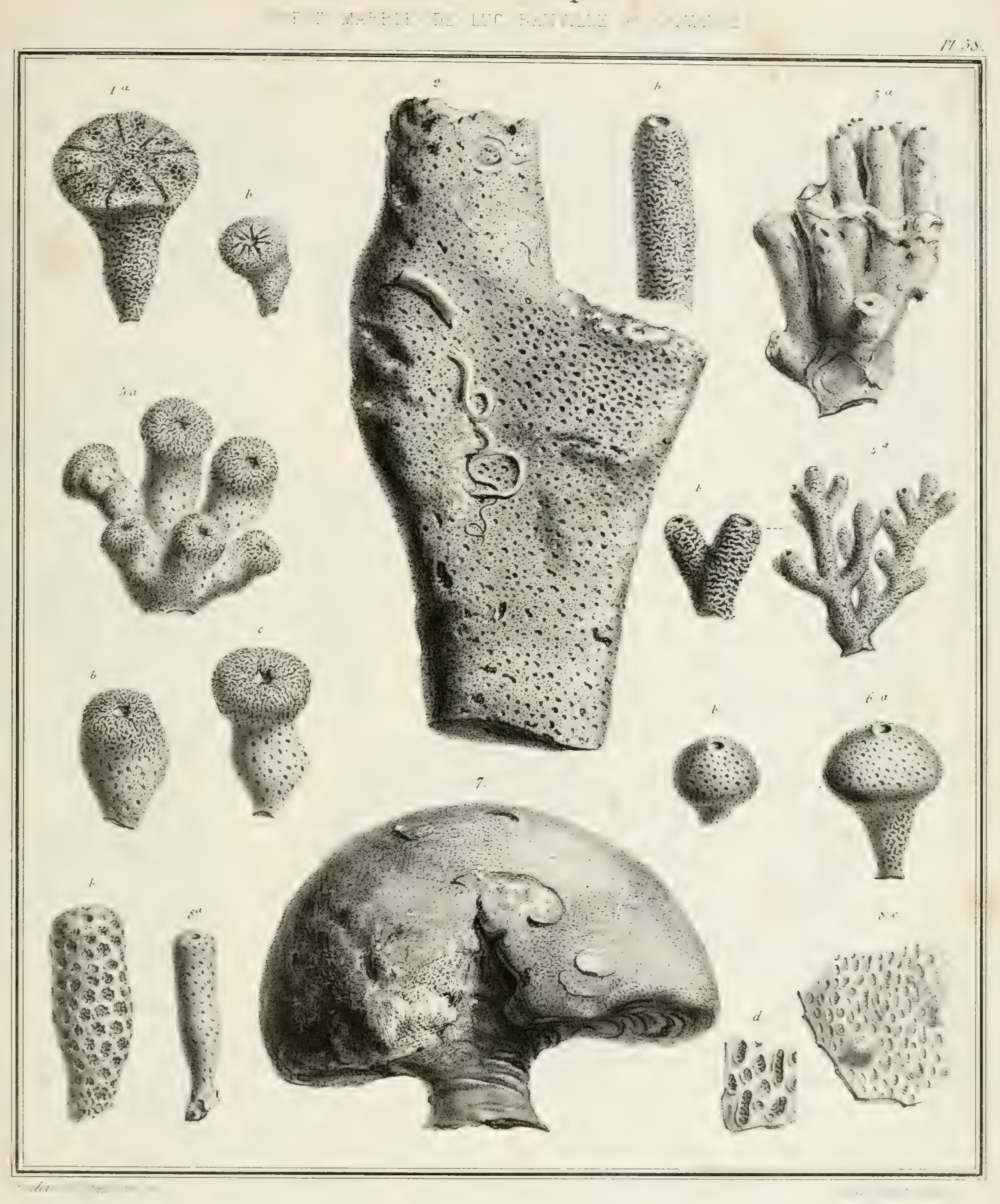
FOREST-MARBLE DE LUC, RANVILLE, &ª (CALVADOS)



Ludovic Michelin in lap. Lith. de Thierry F.^es

1. Diastopora	microstoma.	Michelin.	5. Ceriopora	globosa.	Michelin.	9. Ceriopora	corymbosa.	Michelin
2. Heteropora	ficulina.	———	6. ———	pustulosa.	———	10. Lymnorea	mamillosa.	Lamouroux
3. ———	pyriformis.	———	7. ———	dumetosa.	———	11. Spongia	helvelloïdes.	———
4. ———	ramosa.	———	8. ———	conifera.	———	12. Eschara	Ranvilliana.	Michelin.

GROUPE OOLITHIQUE.



1.	*Spongia*	*umbellata*.	Michelin.
2.	———	*macrocaulis*	———
3.	*Scyphia*	*cymosa*.	———
4.	*Scyphia*	*pistilloïdes*.	Michelin.
5.	*Siphonia*	*lagenaria*	———
6.	———	*lycoperdioïdes*	———
7.	*Lymnorea*	*gigantea*.	Michelin
8.	*Eudea*	*cribraria*.	———

GROUPE DE TRANSITION.

TERRAIN CARBONIFERE DE TOURNAÏ (BELGIQUE)

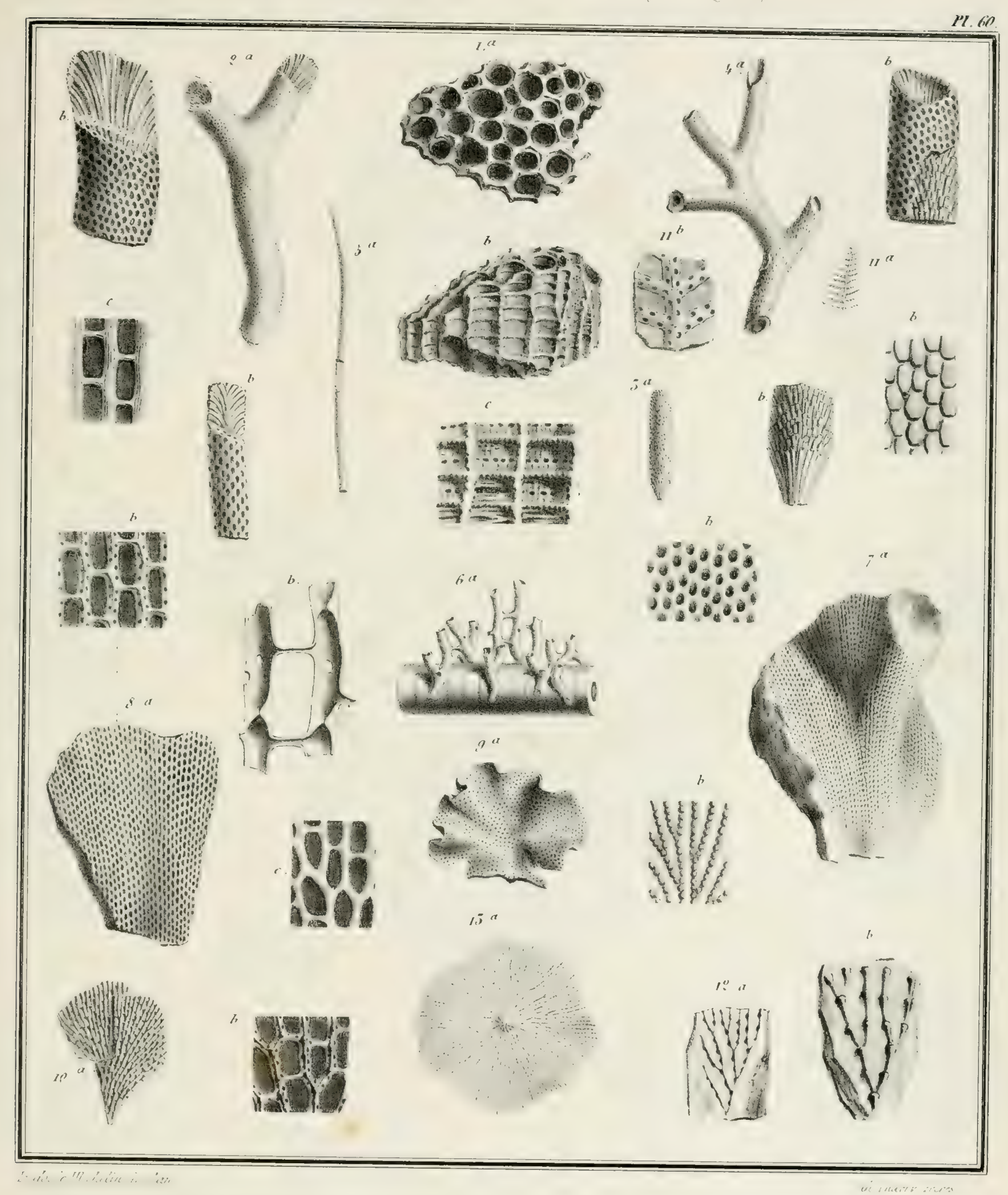


Ludovic Michelin in lap. — lith. Thierry frères

1 *Mortieria vertebralis.* Koninck.
2 *Michelinia favosa.* ———
3 ——— *compressa.* Michelin.
4 *Caninia patula.* ———
5 *Caninia cornucopiae.* Michelin.
6 *Amplexus coralloides.* Sowerby.
7 ——— *serpuloides.* Koninck.
8 *Cyathaxonia tortuosa.* Michelin.
9 *Cyathaxonia cornu.* Michelin.
10 ——— *spinosa* ———

GROUPE DE TRANSITION

TERRAIN CARBONIFERE DE TOURNAY (BELGIQUE)



1.	*Favosites*	*cylindrica.*	Michelin.
2.	*Alveolites*	*tumida.*	———
3.	———	*scabra.*	———
4.	———	*irregularis.*	Koninck.
5.	———	*funiculina.*	Michelin.
6.	*Harmodites*	*catenatus.*	Koninck.
7.	*Retepora*	*retiformis.*	Michelin.
8.	———	*membranacea.*	Phillips.
9.	*Discopora*	*antiqua.*	Michelin.
10.	*Gorgonia*	*undulata.*	———
11.	*Gorgonia*	*anceps.*	Schlotheim.
12.	*Crisidea*	*tubaeformis.*	Michelin.
13.	———	*undulata.*	———

GROUPE SUPRACRÉTACÉ.

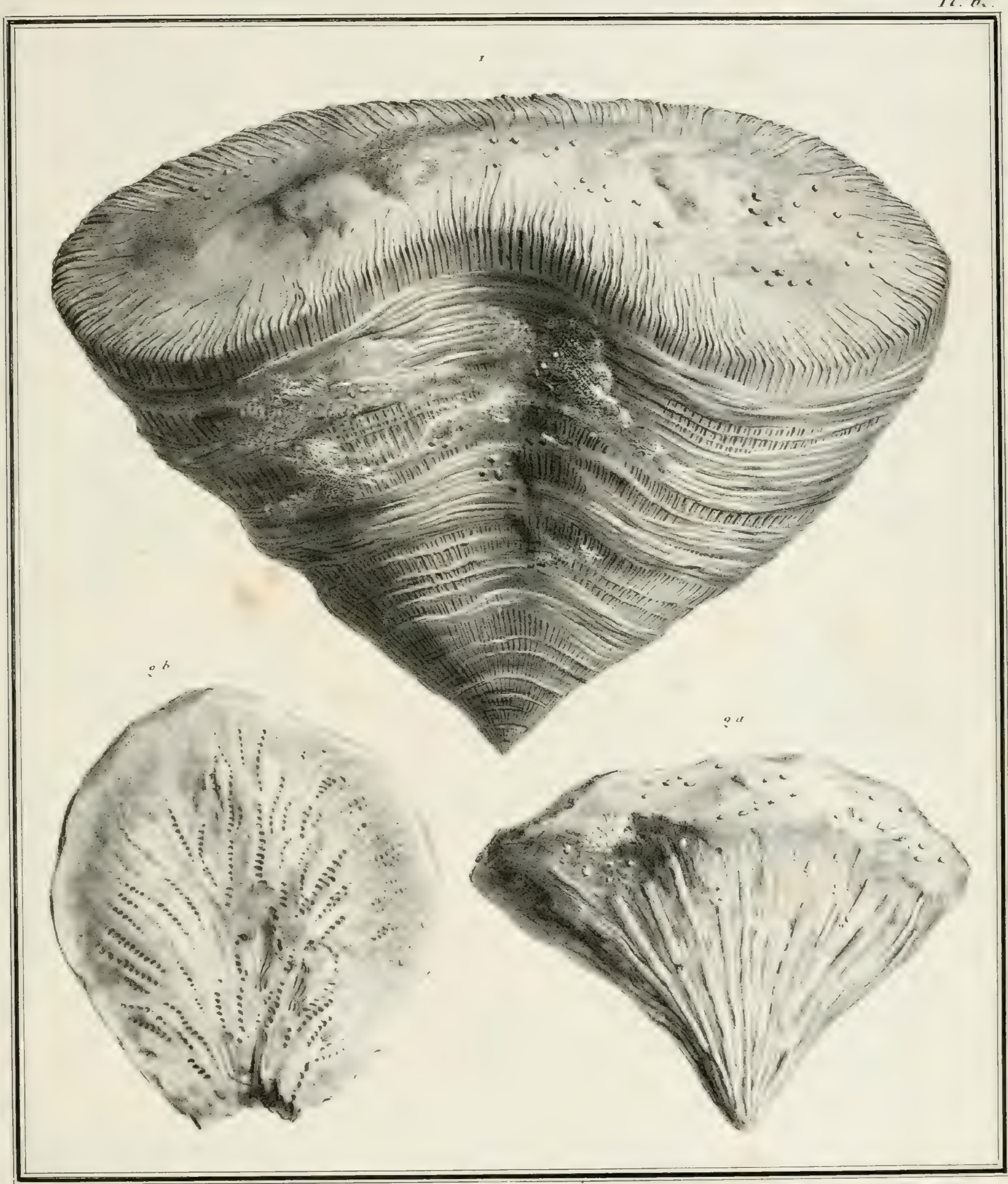
TERRAIN NUMMULITIQUE DE LA PALAREA, JARRIER PRÈS NICE



1.	*Fungia*	*Niceensis.*	Michelin.	5.	*Turbinolia*	*hemispherica.*	Vtas Michelin.	9.	*Turbinolia*	*cyclolitoides.*	Bellardi.
2.	*Cyclolites*	*Borsonis.*	Vtas ______	6.	______	*Alpina.*	______	10.	*Flabellum*	*costatum.*	______
3.	*Turbinolia*	*exarata.*	______	7.	______	*bilobata.*	______	11.	*Orbitolites*	*elliptica.*	Michelin.
4.	______	*corniculum.*	______	8.	______	*multisinuosa.*	______				

GROUPE SUPRACÉTACÉ.

TERRAIN NUMMULITIQUE DE LA PALAREA, JARRIER PRES NICE.

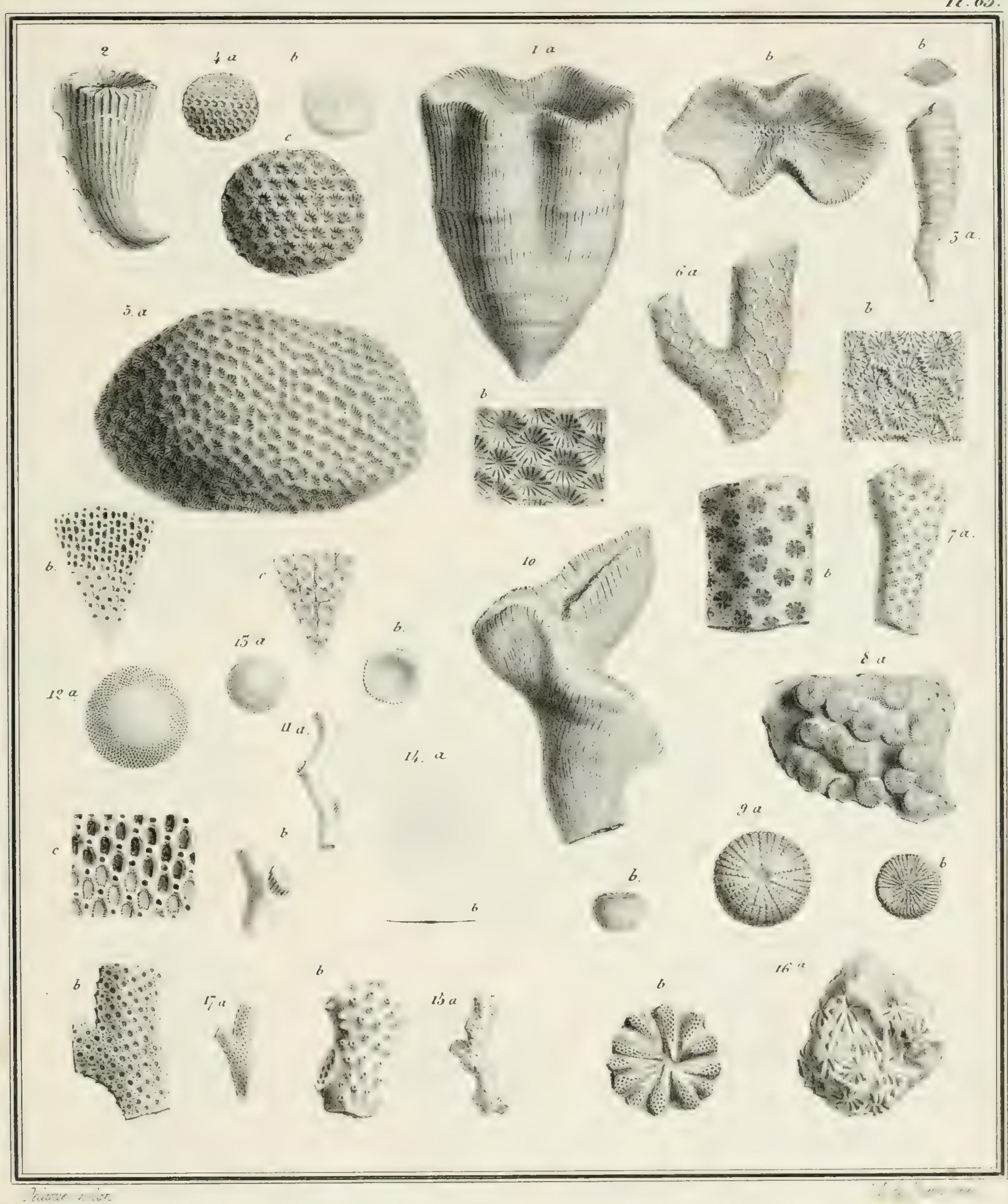


Delarue in lap.

1 *Turbinolia bilobala* Var. Maxima Michelin ‖ 2 *Stylina* *Pereziana*. Michelin

GROUPE SUPRACRÉTACÉ.

TERRAIN NUMMULITIQUE DE LA PALAREA, JARRIER PRÈS NICE.

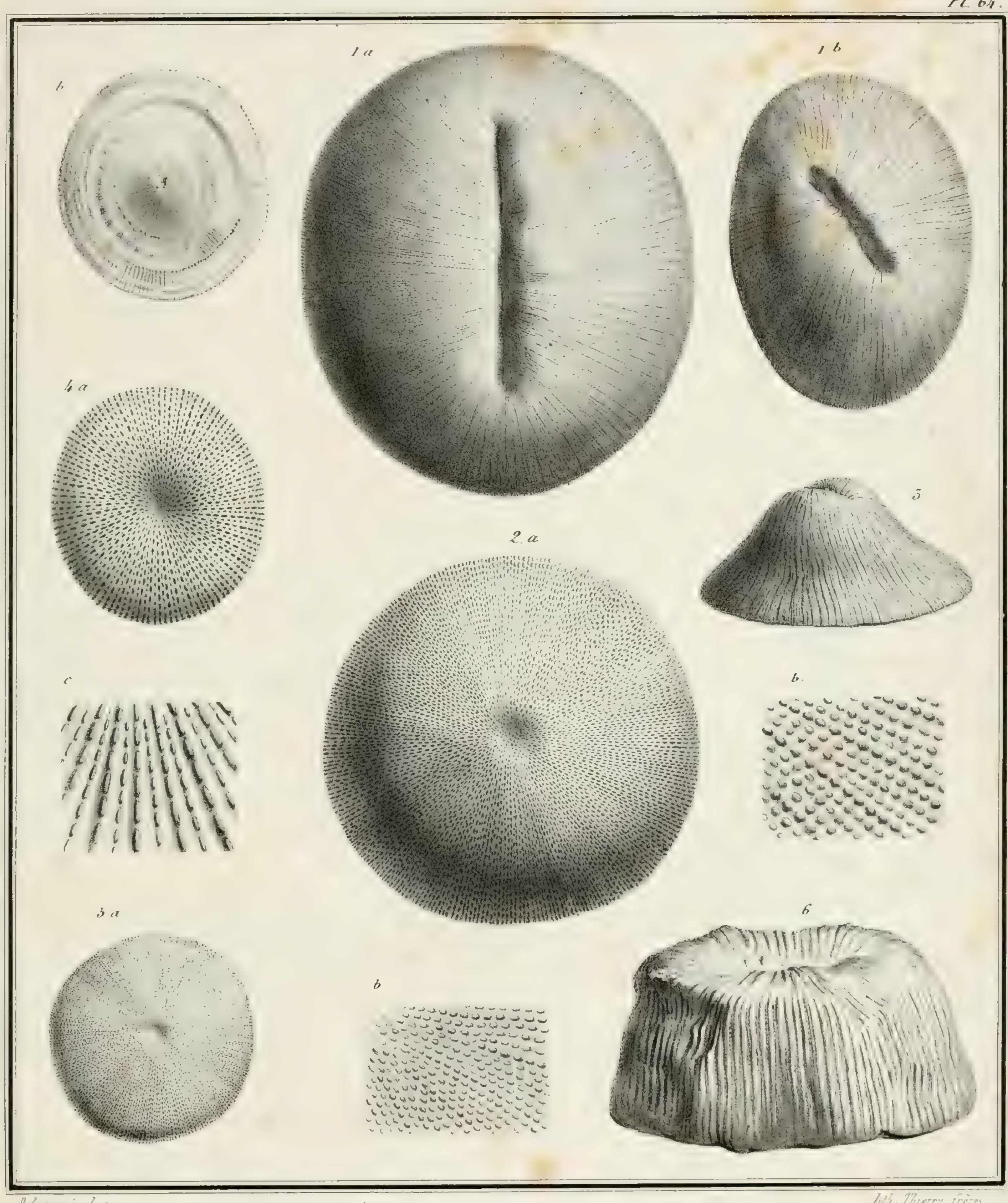


1.	Turbinolia	sinuosa.	Al. Brongniart	7.	Astrea	distans.	Leymerie.	13	Lunulites	punctatus.	Leymerie.
2.	Flabellum	Pyrenaïcum.	Michelin.	8.	———	brevissima.	Deshayes.	14	Orbitolites	Prattii.	Michelin
3.	———	vaginale.	———	9.	Anthophyllum	Braunii.	Michelin.	15	Diastopora	Thorentii.	———
4.	Astrea	numisma.	Defrance	10	Lobophyllia	Micheliniana	Leymerie.	16	Lichenopora	conjuncta	———
5.	———	Caillaudii.	Michelin.	11.	Oculina	incerta.	———	17	Eschara	Leymeriana	———
6	Alveopora	elegans.	———	12.	Lunulites	Vandenheckei.	———				

GROUPE CRÉTACÉ

CRAIE A HIPPURITES DES CORBIERES, DES MARTIGUES, DE MAZAUGUES. &a.

Pl. 64.



Delarue in lap. — lith. Thierry frères

1	Cyclolites	elliptica.	Lamarck.
2	———	hemispherica.	Blainville
3	Cyclolites	undulata.	Goldfuss.
4	———	Haveriana.	Michelin.
5	Cyclolites	Corbieriaca.	Michelin
6	———	rugosa.	———

GROUPE CRÉTACÉ.

CRAIE À HIPPURITES DES CORBIÈRES, DES MARTIGUES, DE MAZAUGUES &ª



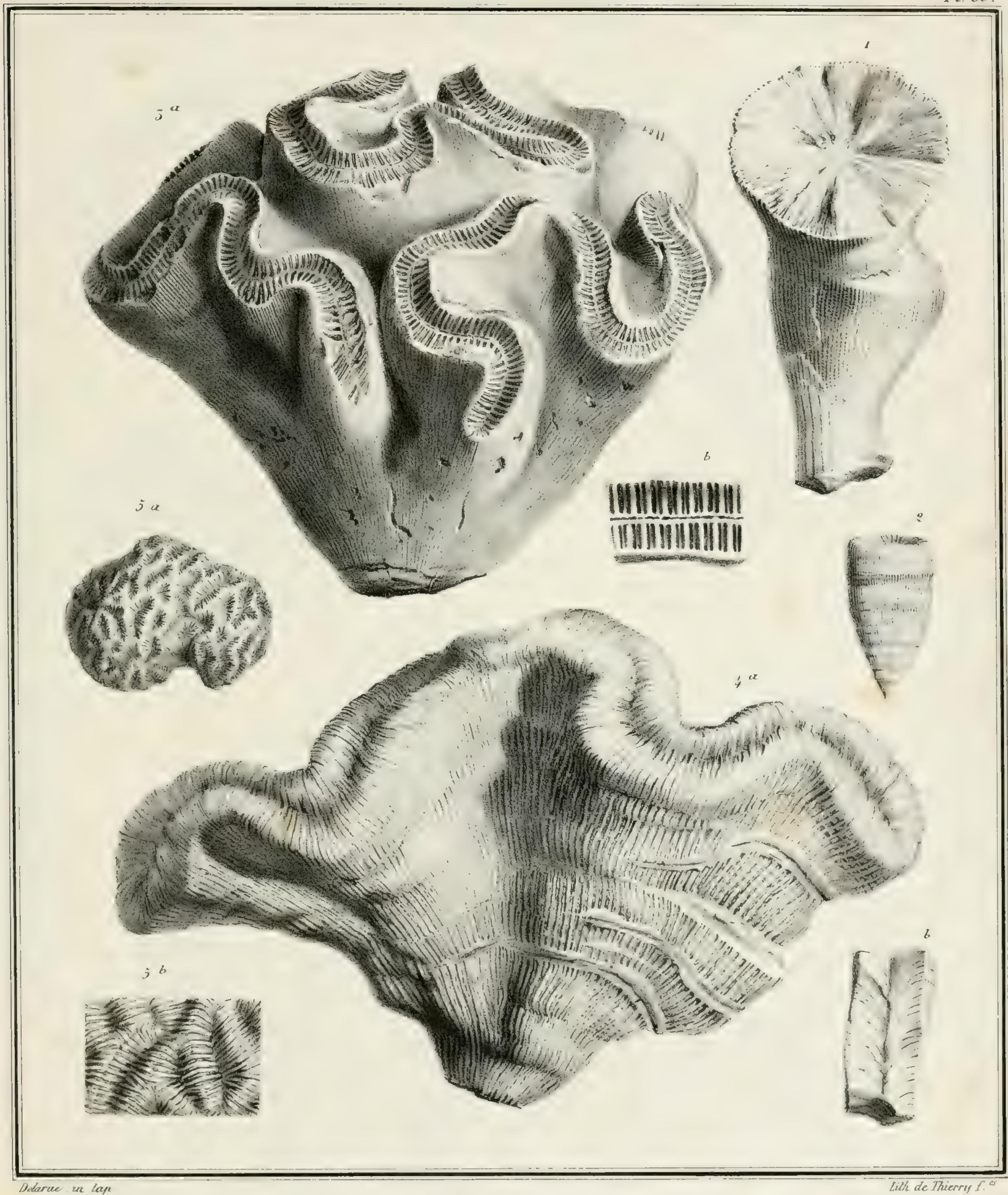
Delarue in lap. — Lith: Thierry frères.

1 Turbinolia Boissyana. Michelin.	4. Turbinolia rudis, J.er Michelin	7 Turbinolia hippuritiformis Michelin.
2 ——— vricernis ———	5 ——— alata. ———	8 Diploctenium lunatum. ———
3 ——— patula. ———	6. ——— complanata. Goldfuss	

GROUPE CRÉTACÉ

CRAIE A HIPPURITES DES CORBIÈRES, DES MARTIGUES, DE MAZAUGUES &c.a

Pl. 66.



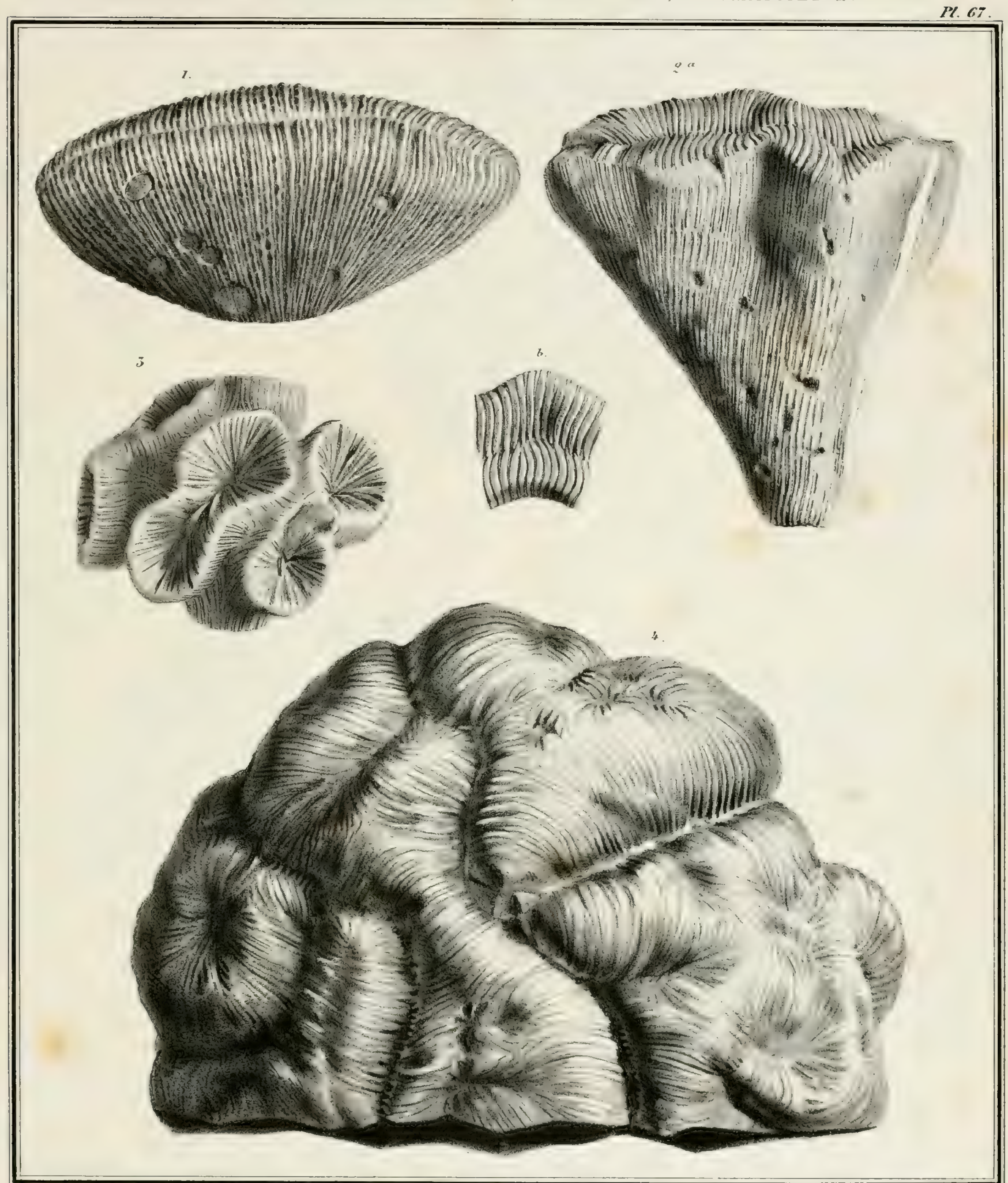
Delarue in lap.

Lith. de Thierry f.res

1. *Turbinolia cernua.* Goldfuss.
2. ——— *cuneolus.* Michelin.
3. *Lobophyllia labyrinthica.* ———
4. *Lobophyllia Martiniana.* Michelin
5. *Meandrina tenella.* Goldfuss

GROUPE CRÉTACÉ

CRAIE À HIPPURITES DES CORBIÈRES, DES MARTIGUES, DE MAZAUGUES &ª.

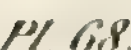


Delarue in lap. — Lith. de Thierry frères

1. *Turbinolia cymbula.* Michelin
2. *Lobophyllia Occitanica.* ———
3. *Lobophyllia lobata.* Blainville
4. *Meandrina macroreina.* Michelin

GROUPE CRÉTACÉ

CRAIE A HIPPURITES DES CORBIÈRES, DES MARTIGUES, DE MAZAUGUES, &.ª



1 a

b

2 a

b

b

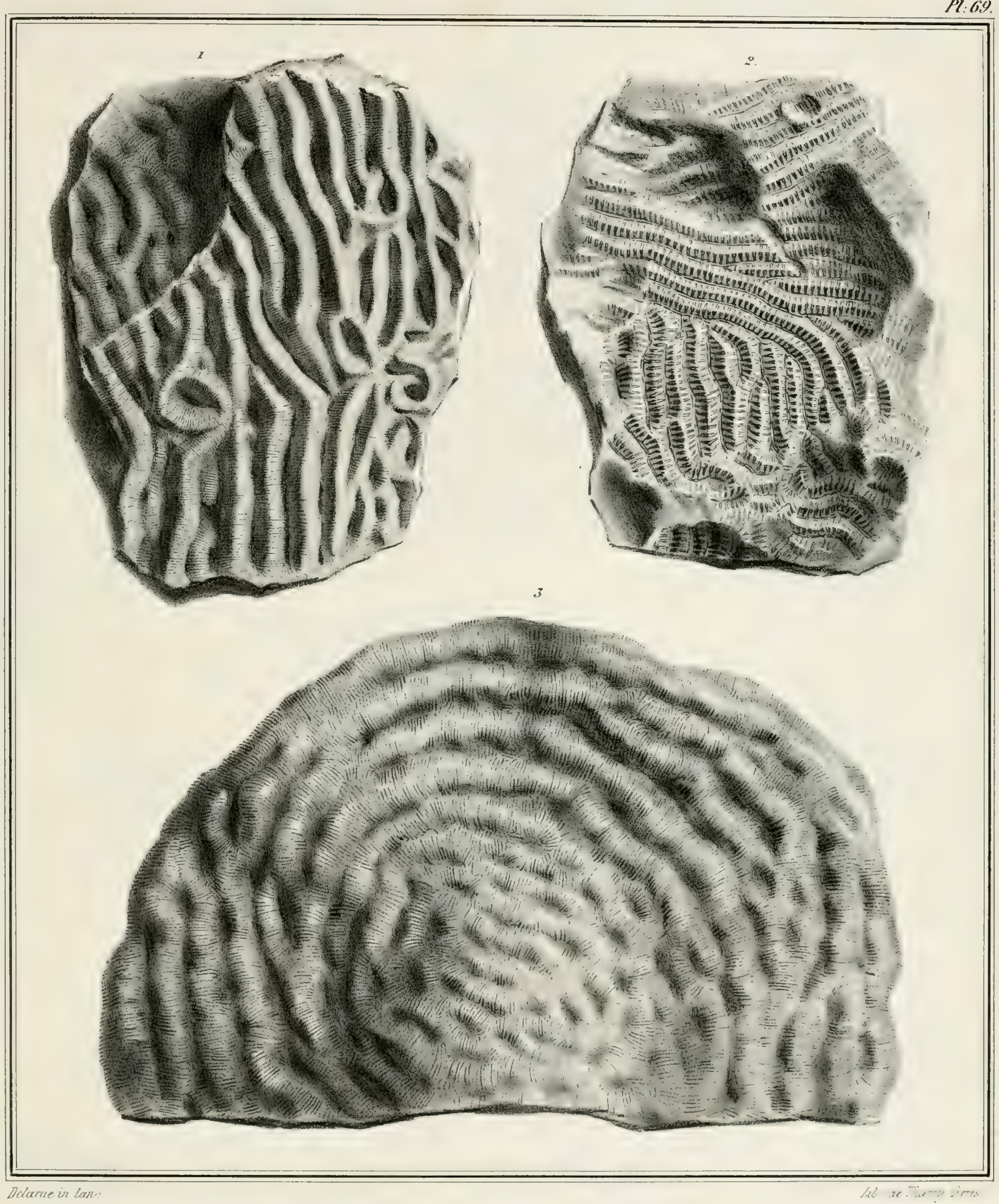
4

3 a

Delarue in lap.

Imp Thierry frères

1. Diploctenium Matheronis. Michelin.
2. Monticularia Styriana. ———
3. Meandrina radiata. Michelin.
4. Astrea Firmasiana. ———



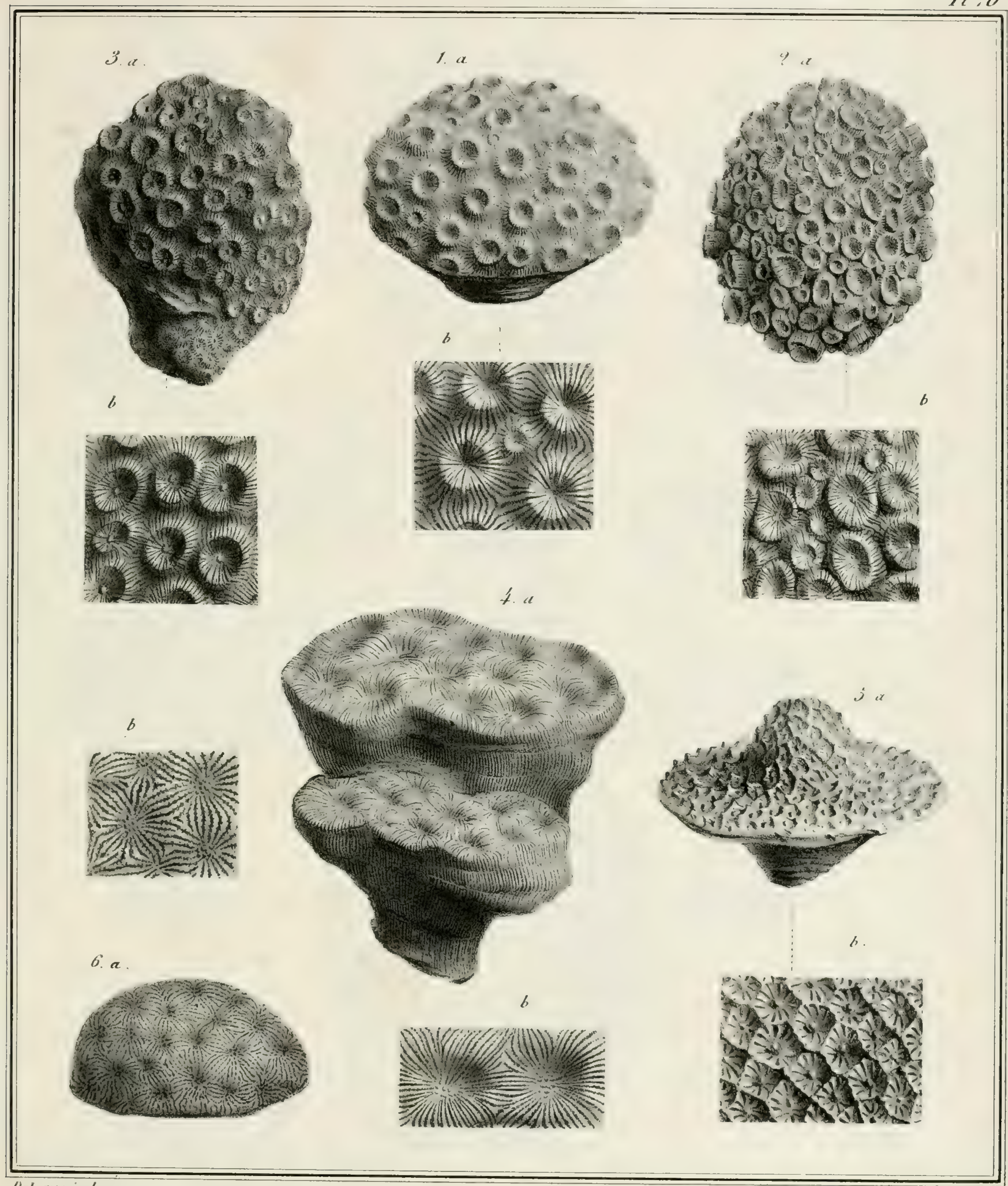
Delarue in lap:

1. *Meandrina Ataciana* Michelin. ‖ 2. *Meandrina Pyrenaïca* Michelin. ‖ 3. *Agaricia circularis* Michelin.

GROUPE CRÉTACÉ

CRAIE A HIPPURITES DES CORBIERES DES [illegible]

Pl. 70

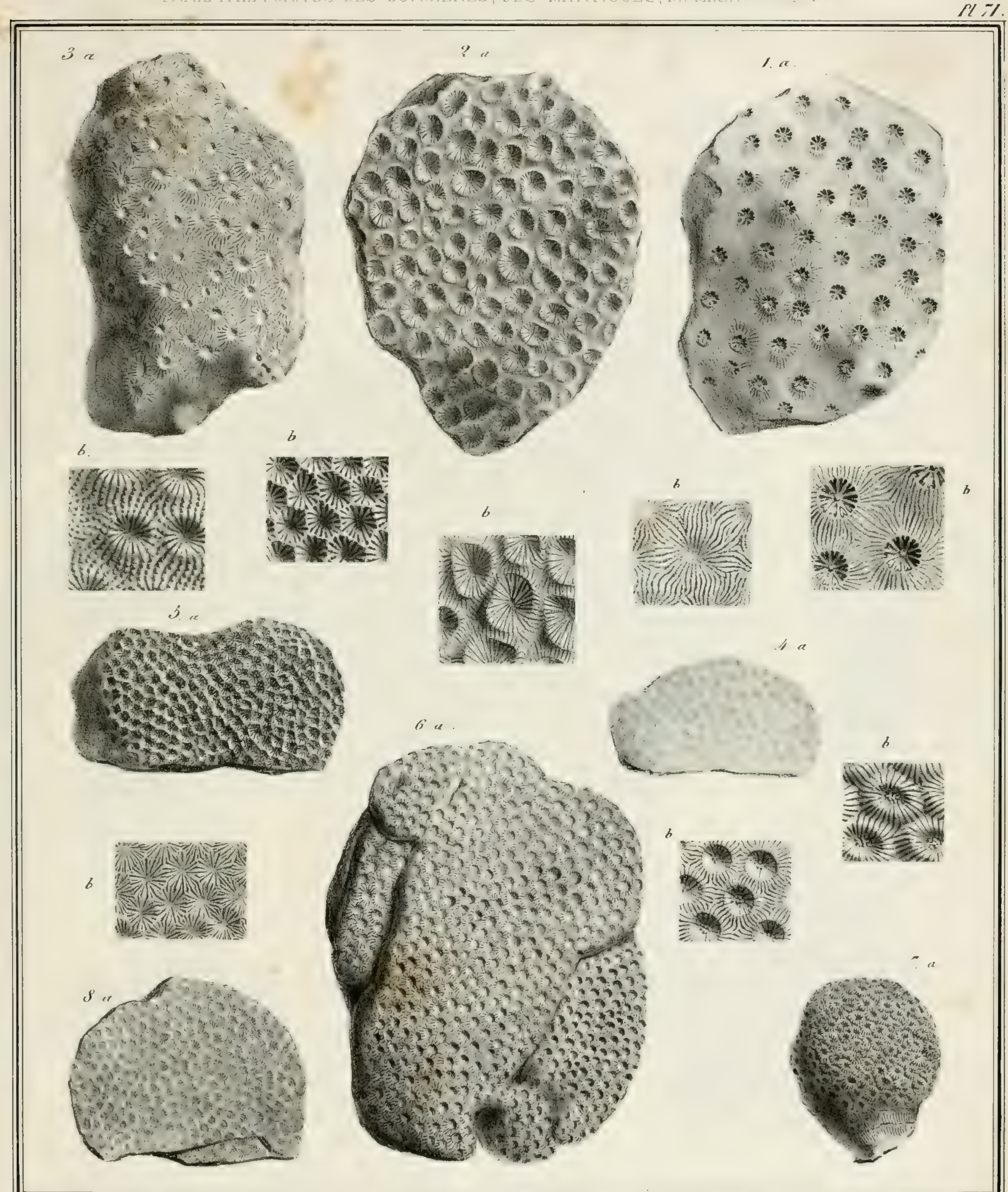


Delarue in lap. — Lith. Thierry frères

1. *Astrea pediculata.* Deshayes.
2. ——— *compressa.* Michelin.
3. ——— *Dumasiana.* ———
4. *Astrea media* Sowerby
5. ——— *Lapeyrousiana.* Michelin
6. ——— *composita* ———

GROUPE CRÉTACÉ.

CRAIE À HIPPURITES DES CORBIÈRES, DES MARTIGUES, DE MAZA[illegible]



Delarue in Lap.

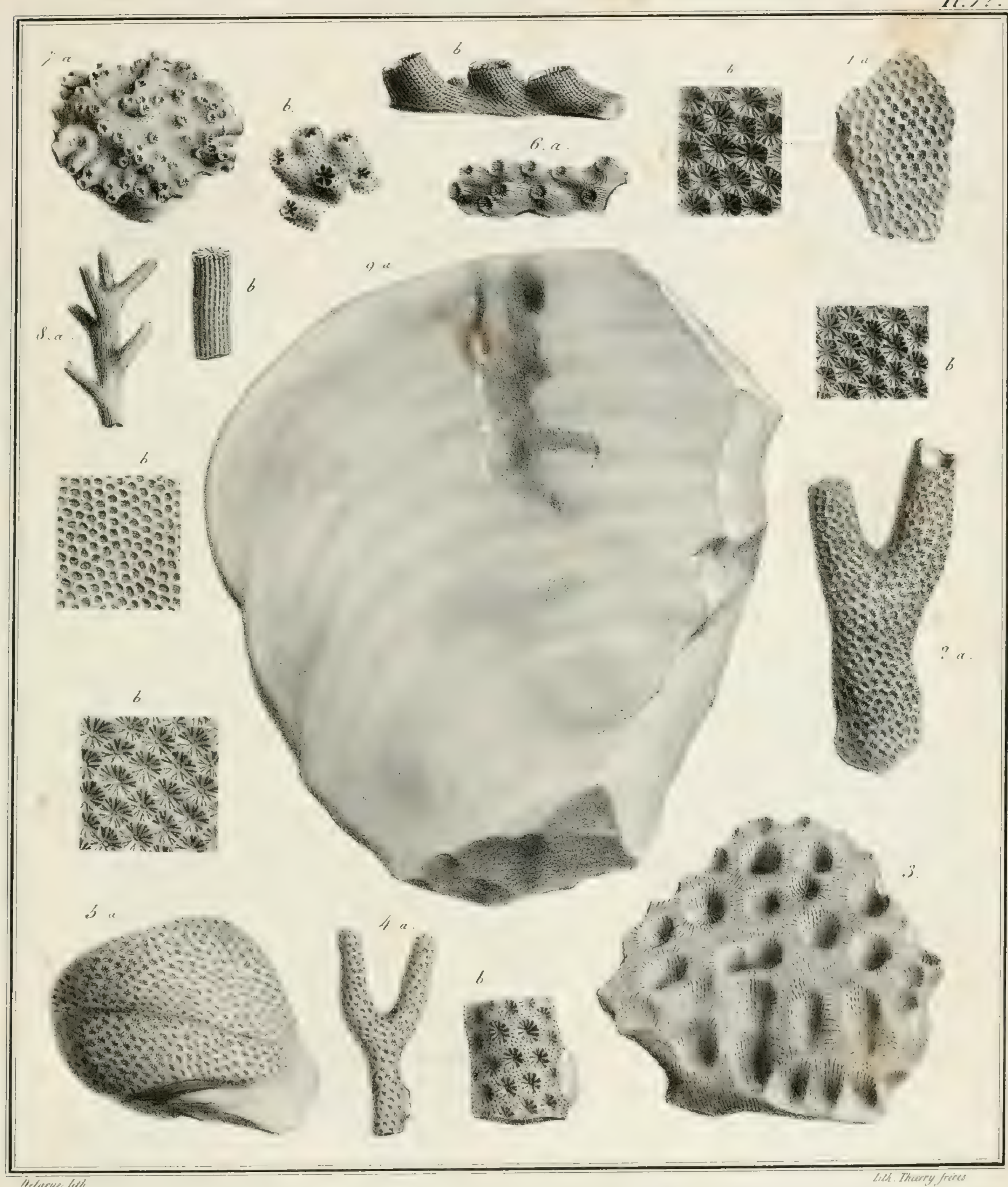
Lith. Thierry frères

1.	Astrea	sparsa.	Michelin.	5.	Astrea	formosa.	Goldfuss
2.	———	Doublierii.	———	6.	———	striata.	———
3.	———	sculpta.	———	7.	———	variolaris.	Michelin
4.	———	Teissieriana.	———	8	———	Requienii.	———

GROUPE CRÉTACÉ.

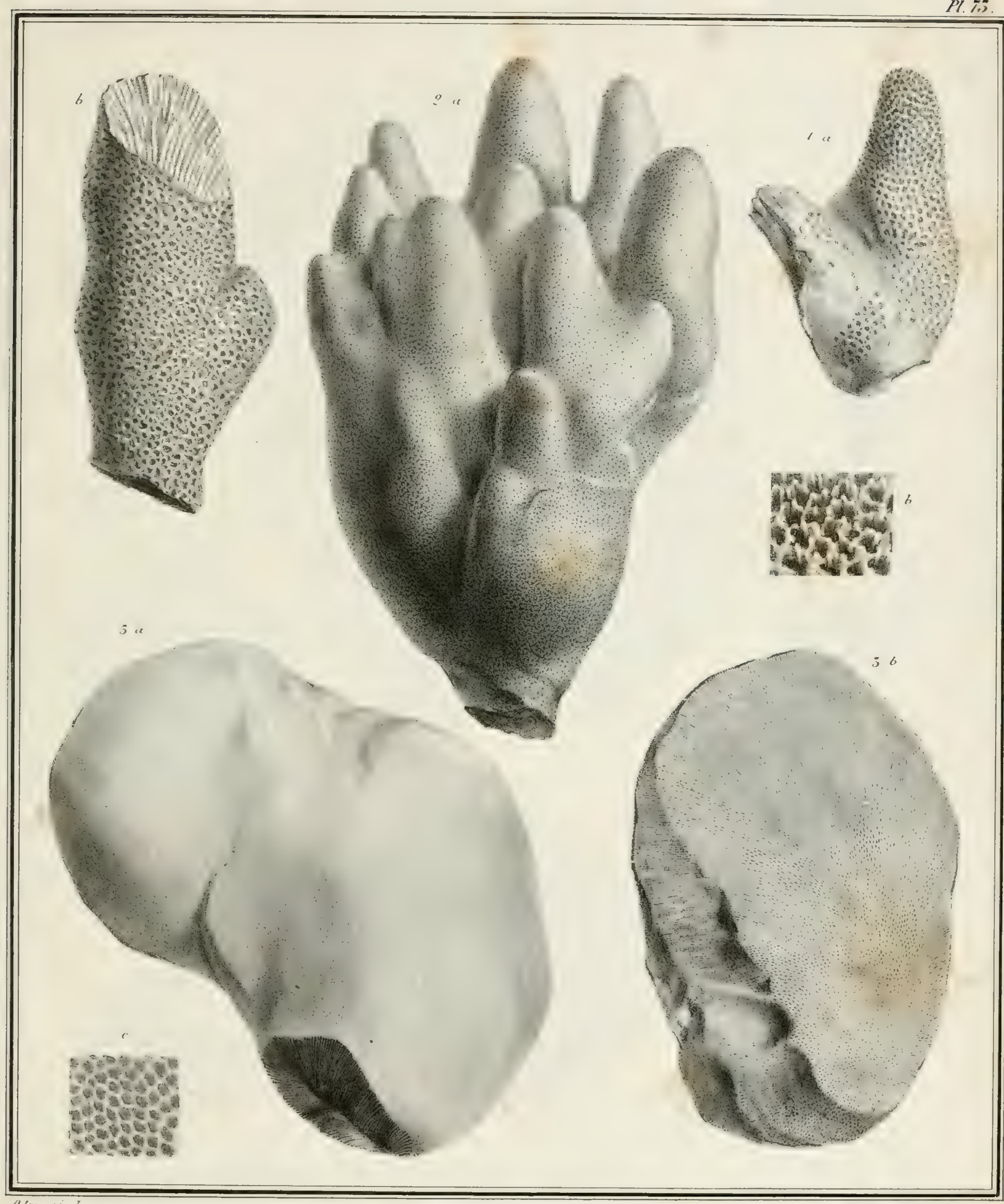
CRAIE A HIPPURITES DES CORBIÈRES, DES MARTICUES

Pl. 72.



Delarue lith. — Lith. Thierry frères

1 Astrea decaphylla — Michelin	4. Astrea ramosa — Sowerby	7. Lithodendron exigue — Michelin
2 —— octolamellosa. ——	5. —— formosissima ——	8. —— ramulosum ——
3. —— perforata. ——	6. Lithodendron gemmans — Michelin	9 Chaetetes flabellum ——

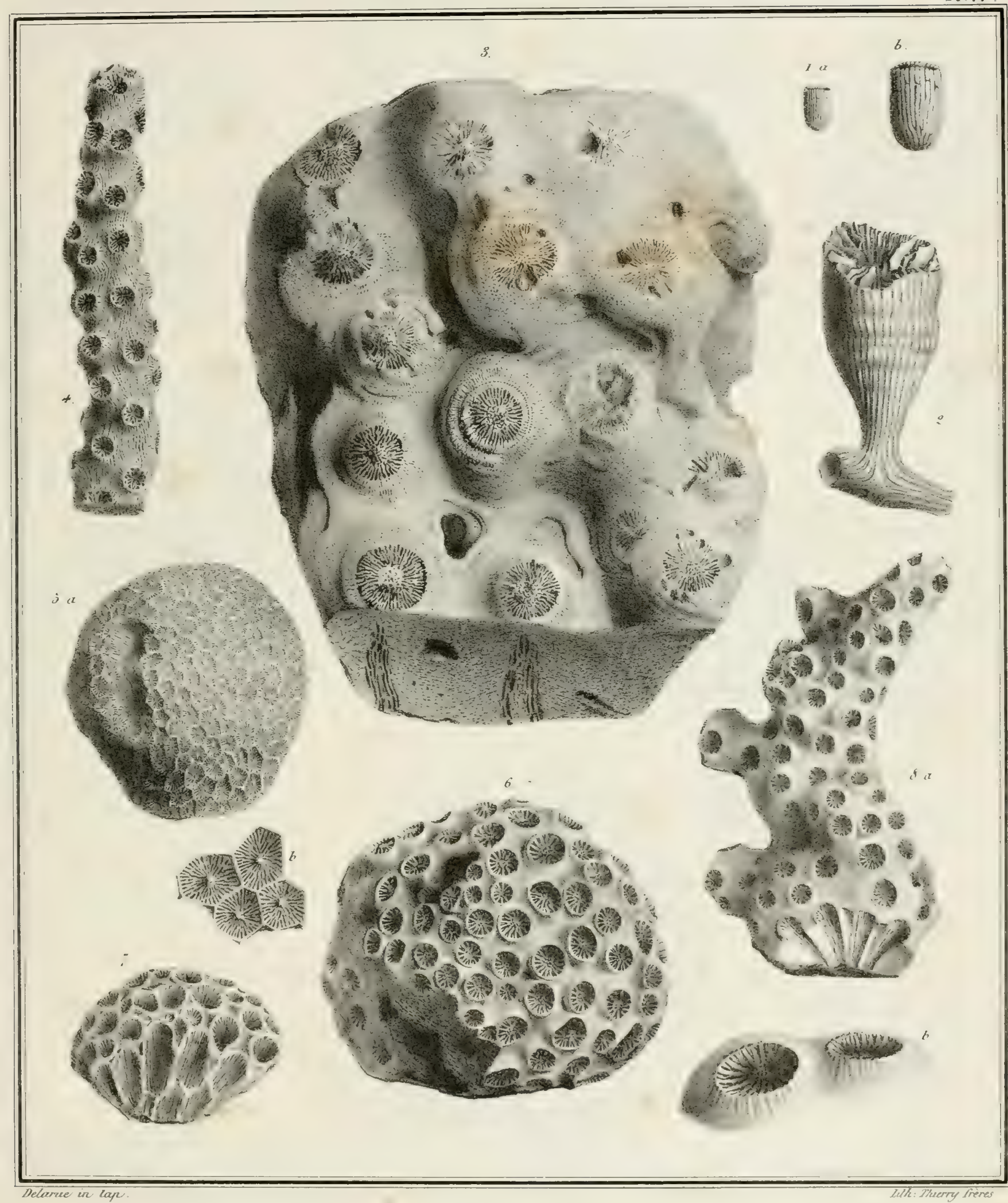


Delarue in lap. — de Thierry frères

1. *Alveolites Massiliensis*. Michelin. ‖ 2. *Chaetetes irregularis*. Michelin. ‖ 3. *Chaetetes Coquandi*. Michelin

GROUPE SUPRACRÉTACÉ.

FALUNS DE L'ANJOU, DE LA BRETAGNE, DE LA TOURAINE.



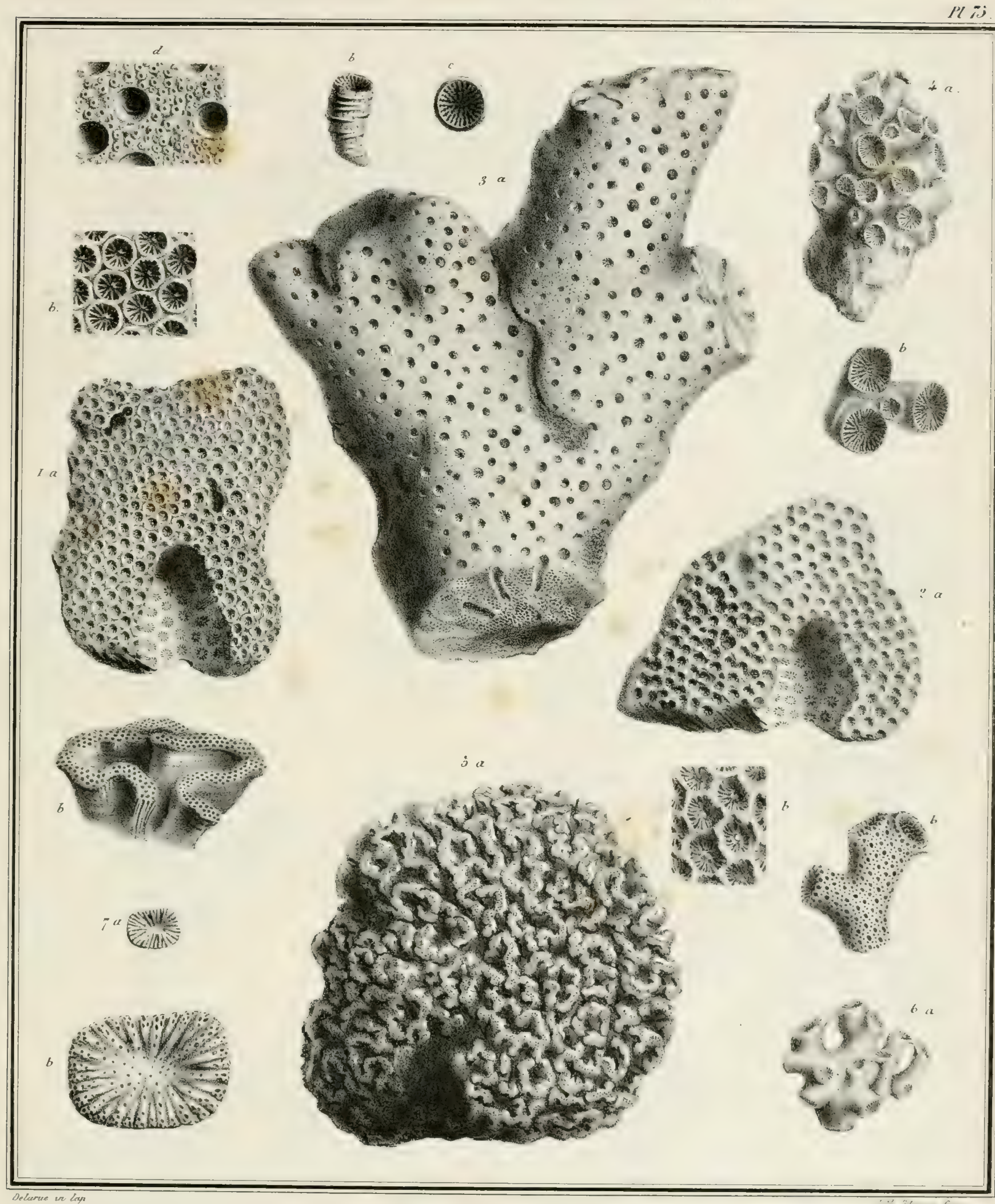
Delarue in lap. Lith: Thierry frères

1. *Turbinolia Milletiana.* Defrance.	4. *Dendrophyllia digitalis.* Blainville. (1.das elongata).	7. *Astrea tubiformis.* Michelin
2. *Caryophyllia Altavillensis.* ———	5. *Astrea Bertrandiana.* Michelin.	8. *Oculina crassoramosa* ———
3. *Dendrophyllia Theolvoldensis.* Michelin.	6. ——— *semispherica.* Defrance.	

GROUPE SUPRACRÉTACÉ

FALUNS DE L'ANJOU, DE LA BRETAGNE DE LA TOURAINE

Pl. 75.

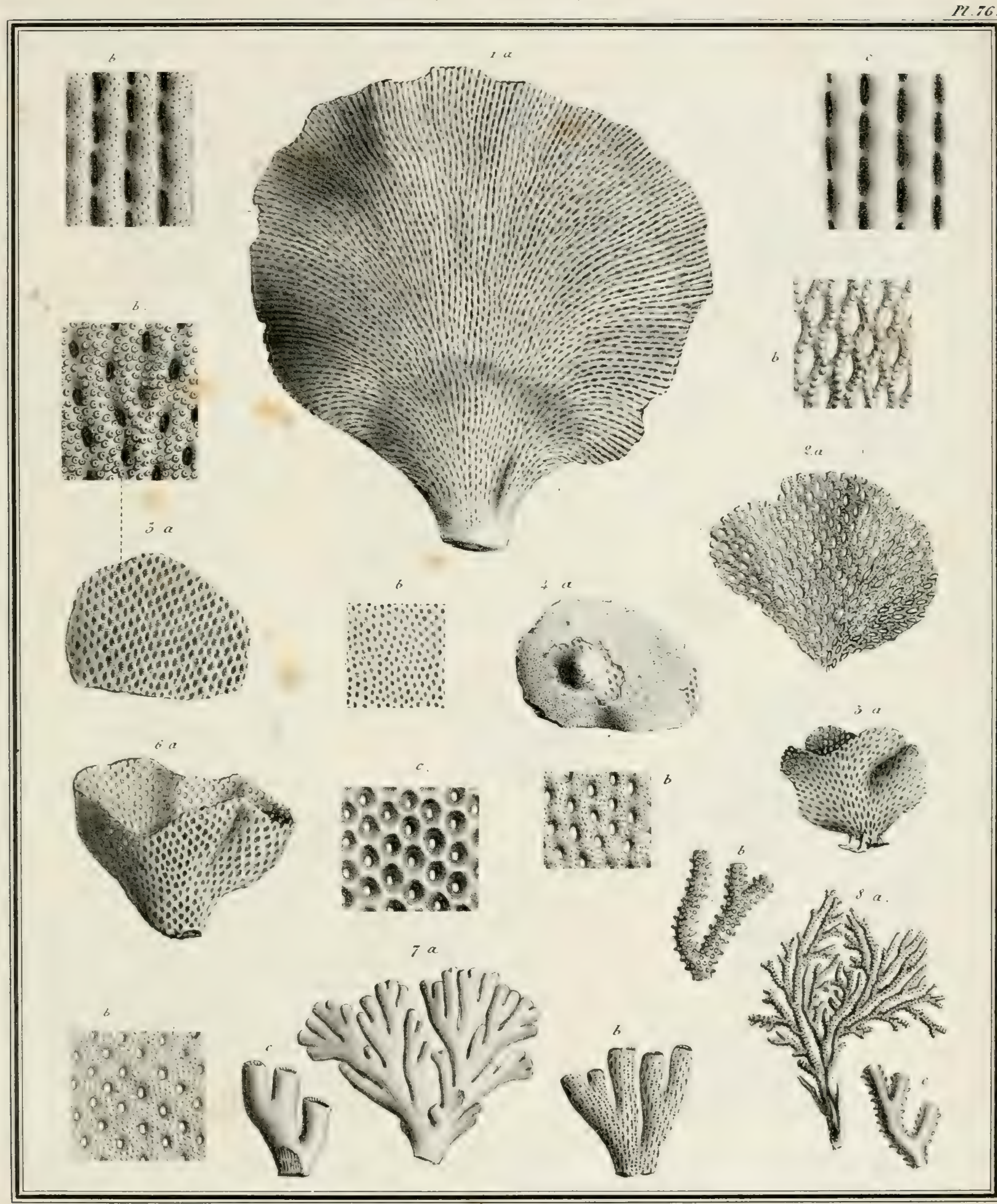


Delarue in lap.

1, 2. *Astrea Turonensis*. Michelin	5. *Apsendesia cerebriformis* Blainville
3. *Lithodendron parasitum*. ———	6. *Heteropora intricata*. Michelin
4. ——— *multicaule*. ———	7. *Lichenopora Armorica* ———

GROUPE SUPRACRÊTACÉ.

FALUNS DE L'ANJOU, DE LA BRETAGNE, DE LA TOURAINE

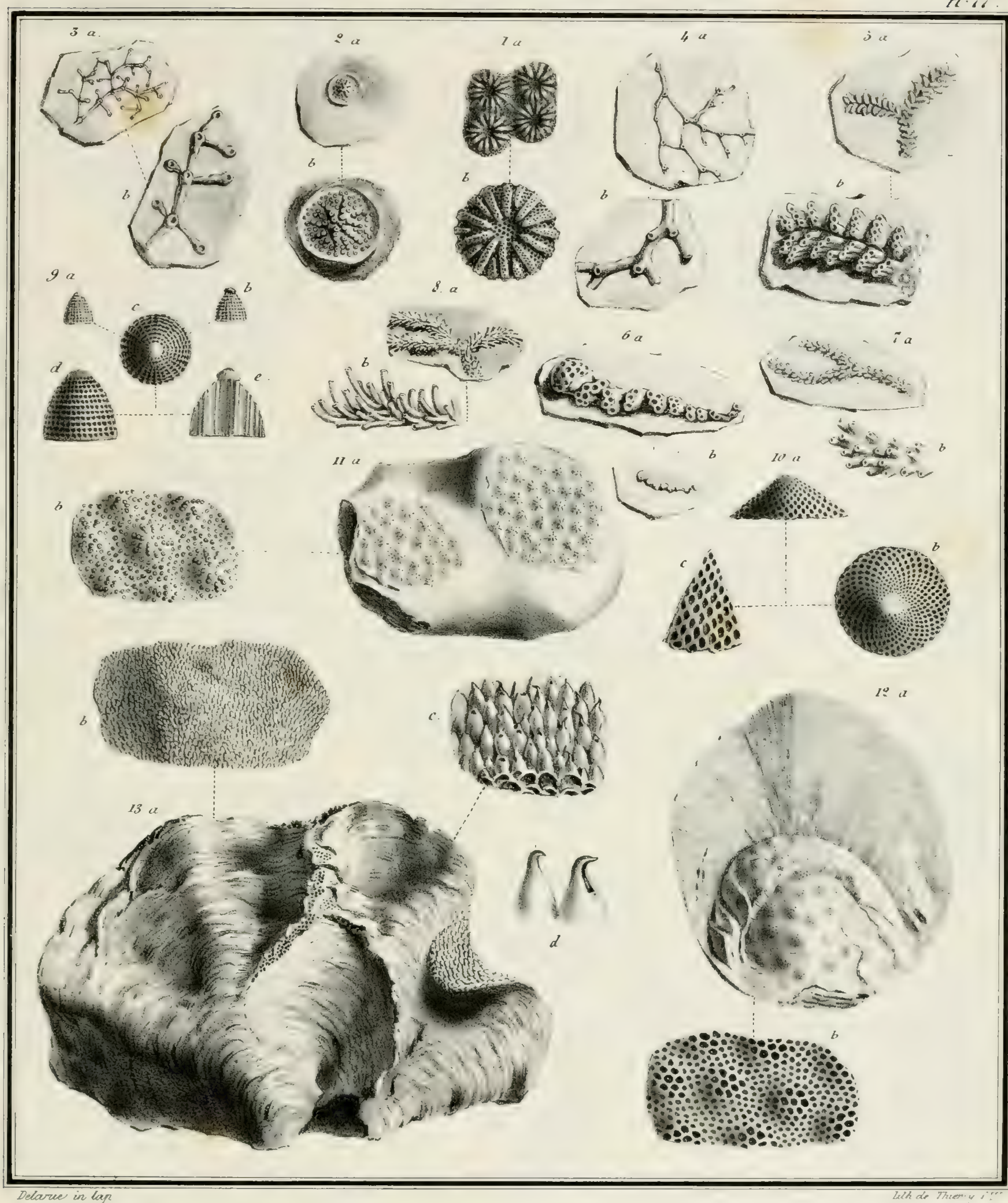


Delarue in lap.   Lith. Thierry frères

1	*Retepora*	*flabelliformis*	Blainville	5	*Retepora*	*frustulata*	Lamarck
2.	———	*granulosa*	Michelin	6.	———	*alveolaris*	Blainville
3.	———	*scobinosa*	———	7.	*Hornera*	*striata*	Milne Edwards
4.	———	*applicata*	Blainville	8.	———	*Andegavensis*	Michelin

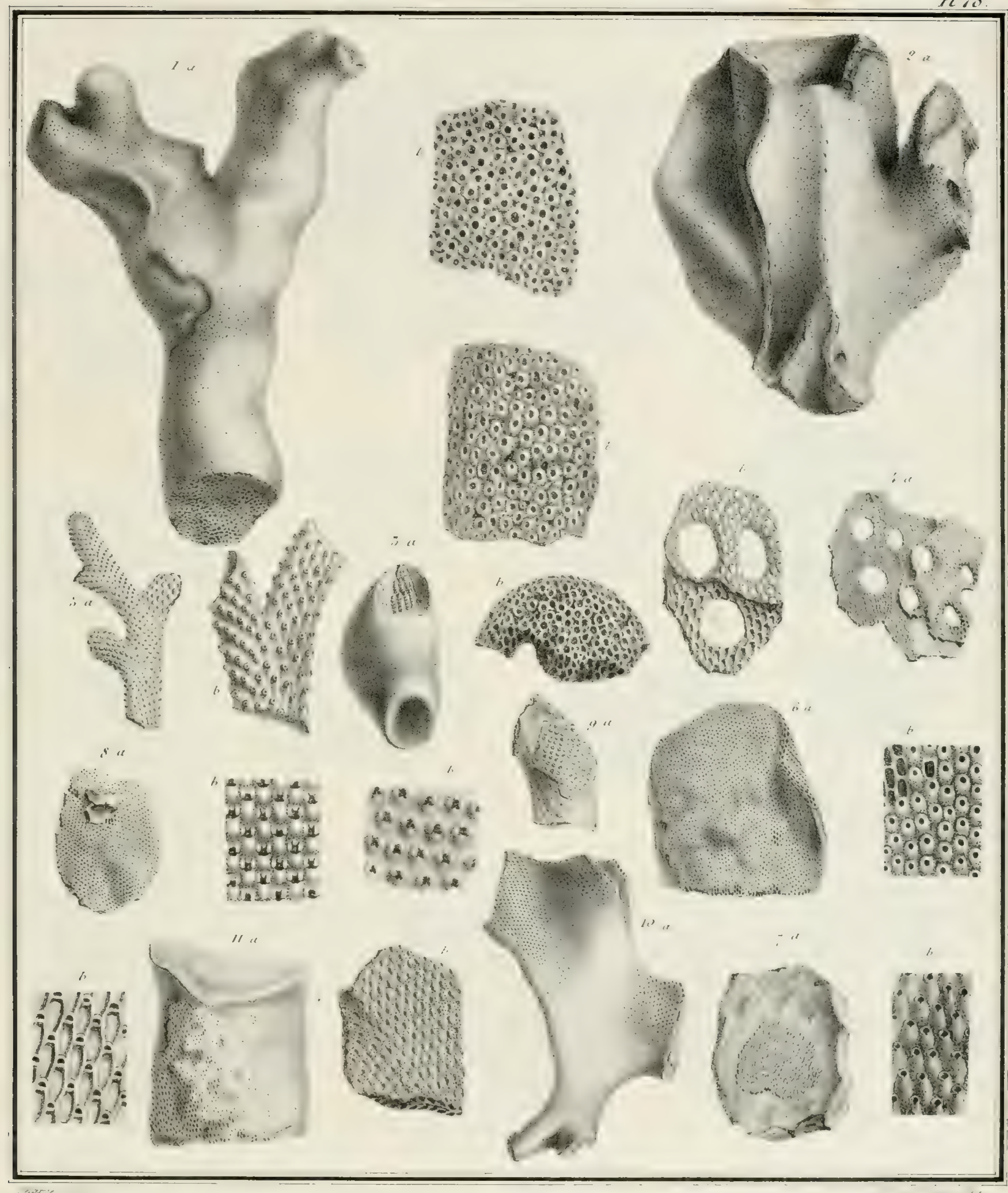
GROUPE SUPRACRÉTACÉ.

FALUNS DE L'ANJOU, DE LA BRETAGNE, DE LA TOURAINE



Delarue in lap. — *Lith. de Thierry f.res*

1. *Lichenopora cumulata.* Michelin
2. *Tubulipora fungicula* ———
3. *Alecto vesiculosa.* ———
4. ——— *parvula.* ———
5. *Obelia disticha* Michelin.
6. ——— *alternata* ———
7. *Tubulipora fimbriata* Lamarck
8. ——— *cornigera* Michelin.
9. *Lunulites conica.* Defrance.
10. *Lunulites cuvieri* Defrance
11. *Ceriopora licheniformis* Michelin.
12. *Chaetetes pomiformis.* V.tas id
13. *Cellepora cucullina.* Michelin

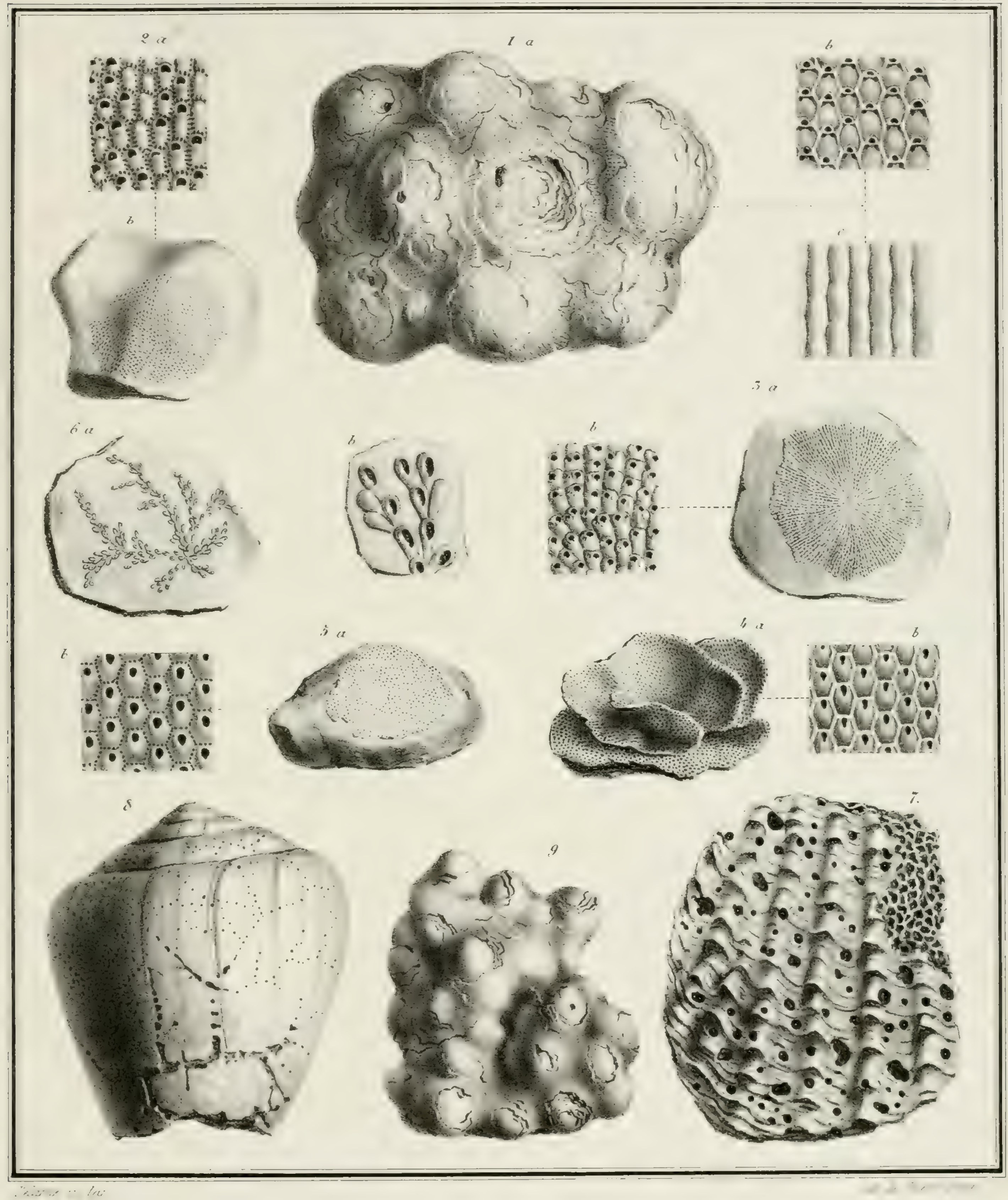


1. *Cellepora palmata.* Michelin.
2. —— *foliacea.* ——
3. —— *parasitica* ——
4. *Adeone reteporiformis.* ——
5. *Adeone lamellosa.* Michelin.
6. *Eschara Sedgwickii.* M. Edwards.
7. —— *[illegible]* ——
8. —— *Deshayesii.* ——
9. *Eschara labiosa.* Michelin.
10. —— *monilifera* M. Edwards.
11. —— *Andegavensis* Michelin.

GROUPE SUPRACRÉTACÉ.

FALUNS DE L'ANJOU, DE LA BRETAGNE, DE LA [illegible]

Pl. 79.



1. *Eschara nobilis.* Michelin.
2. ——— *pertusa.* M. Edwards.
3. ——— *biaperta.* Michelin.
4. *Eschara affinis.* M. Edwards.
5. ——— *lata.* ———
6. *Criserpia pyriformis.* Michelin.
7. *Vica Duvernoyi.* Nardo
8. ——— *Nardina.* Michelin
9. *Nullipora uvaria* ———

